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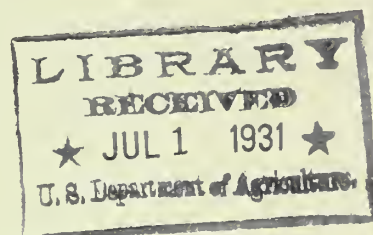


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1931 CATALOG

66th YEAR

# Choice Iowa Seeds



## Iowa Seed Company

*Seed Headquarters*

East 4th and Locust    Des Moines, Iowa

*Vegetable Seeds & Plants*

# LAWN GRASS SEED

**"EVERGREEN"  
AND  
"SHADY PLACE"**  
Lawn Grass  
Prepared by  
**THE IOWA SEED CO.**  
DES MOINES, IOWA

## Lawn Grass Seed

We offer only high-grade, clean grass seed that will grow. In the grass seed mixtures only suitable kinds of grass are included. Cheap undesirable kinds are not used. For best results, sow 1 pound per 400 square feet for new lawns and half that amount for repairing established lawns.

**Evergreen Mixed Lawn Grass Seed**—Our own special mixture of grass seeds suited for growing together in the central and northern states. Is formed of grasses which keep green from early spring all through the summer. Per lb., 60c postpaid. Not prepaid, 50c per lb.; 5 lbs. or more at 45c per lb.

**Shady Place Mixtures**—This mixture is a combination of fine, dwarfgrowing evergreen varieties of grass which grow naturally in shaded spots, to make a fine lawn under shade trees. Heavy seeding makes quick sod. Price per lb., 65c; 3 lbs., \$1.80, postpaid. Not prepaid, 60c per lb.; 5 lbs. or more at 55c per lb.

**Terrace Lawn Mixture**—This is a mixture of grasses which have strong and spreading roots, making a close turf which heavy rains cannot wash out easily. Per lb., 65c; 3 lbs., \$1.80, postpaid. Not prepaid, 60c per lb.; 5 lbs. or more at 55c per lb.

**Kentucky Blue Grass**—"Iowa Shield" Brand. We pride ourselves on this extra choice grade, which is of such unusual purity and high germination. Lb., 70c, prepaid. Not prepaid, 60c per lb.; 5 lbs. or more 55c per lb.

**White Clover**—"Iowa Shield" Brand. The well-known common white clover. Lb., 70c postpaid. Not prepaid, 60c per lb.; 5 lbs. or more at 55c per lb.

**Creeping Bent Grass**—It makes a very fine close turf of excellent color. The advantage of Creeping Bent is that it will thrive on acid soils and can be fertilized with Ammonium Sulphate, which discourages weeds. Sow 1 lb. to each 300 square feet. 1 lb., \$1.50; 3 lbs. \$3.75 postpaid.



## Lawn Fertilizers

**Peerless Fertilizer**—Peerless Fertilizer is of best quality, dry, finely pulverized, easy to apply, practically non-odorous. In preparing a new lawn or top dressing on established lawn use 25 to 50 lbs. per 1,000 sq. ft. Not prepaid, 10-lb. pkg., 60c; 25 lbs., \$1.25; 50 lbs. \$2.00; 100 lbs. \$3.50.

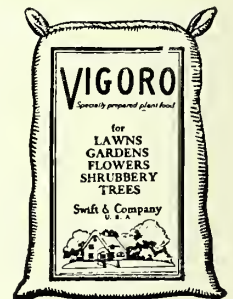
**Sheep Manure**—This is a natural manure, unadulterated. Not prepaid, 10 lbs. for 60c; 50 lbs., \$1.75; 100 lbs. for \$3.00.

**Pure Bone Meal**—It is clean, free from odor and gives results in added growth of grass. Not prepaid, 10 lbs., 60c; 50 lbs., \$2.00; 100 lbs., \$3.75.

**Sacco**—This is a complete fertilizer for lawn, garden or flowers. Its chemical analysis is 4-12-4. Use at the rate of 3 to 5 lbs. per 100 square feet. Not prepaid, 5 lbs., 50c; 10 lbs., 85c; 25 lbs., \$1.75; 50 lbs. \$3.00, 100 lbs., \$5.00.

**Vigoro**—A plant food for general use, finely pulverized and practically nonodorous. Analysis 4-12-4. A Swift & Co. product. Use 25 lbs. per 1,000 square feet. Not prepaid, 5 lbs., 50c; 25 lbs., \$1.75; 50 lbs., \$3.00; 100 lbs. \$5.00.

**Loma**—A scientifically prepared plant food for lawns, gardens, trees and shrubs. Analysis 5-10-4. Not prepaid, 5 lbs., 60c; 10 lbs., \$1.10; 25 lbs., \$2.00; 50 lbs. \$3.50; 100 lbs. \$6.00.



## Satisfaction Collection of Annual Flower Seeds

In choosing the flower seeds for this collection we have included only those kinds which are easiest to grow and yet ones that will be very satisfactory. A regular size packet of each of the following is included (see flower seed pages for description of each kind): No. 715, Antirrhinum; No. 843, Calliopsis; No. 944, Centaurea; No. 955, Chinese Woolflower; No. 1003,

Cosmos; No. 1115, Eschscholtzia; No. 1130, Four O'clock; No. 1315, Marigold; No. 1406, Nasturtium; No. 1411, Nicotiana; No. 1474, Petunia; No. 1496, Phlox; No. 1520, Portulaca; No. 1566, Salpiglossis; No. 1708, Verbena; No. 1757, Zinnia.

16 Packets Total Value \$1.35 For Only \$1.00 Postpaid.



# VEGETABLE SEEDS



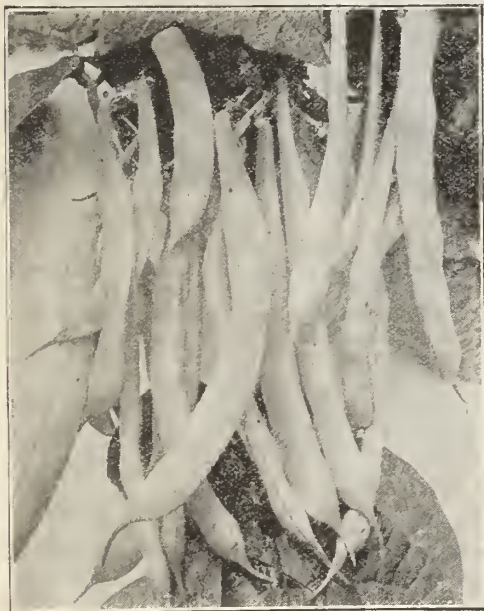
## ASPARAGUS

(One ounce will sow forty feet of drill.)

Asparagus is so easily grown every garden should contain a bed. A circular on "How to Make an Asparagus Bed" sent free on request.

**Washington**—The new rustproof variety. Pkt., 10c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$1.75 postpaid.

**Conover's Colossal**—The standard variety. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 30c; lb., \$1.00 postpaid.



IMPROVED GOLDEN WAX BEANS

## BEANS

### Dwarf or Bush Varieties

Our packets of beans contain two ounces.

**Stringless Green Pod**—The best of the green pod varieties. Pods are long light green, entirely stringless, and of excellent flavor. Very early and prolific and as near perfect as any green pod bean we know. Pkt., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c, postpaid. Not prepaid, 30c per lb.

**Improved Early Valentine**—A standard variety and liked by many. Produces its thick, fleshy pods abundantly. Of fine flavor and matures quickly. Pkt., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c, postpaid. Not prepaid, 30c per lb.

**Improved Golden Wax**—This is the standard variety. The most popular for either family or market garden. Pods are large, clear, waxy yellow and free from rust. Entirely stringless. Pkt., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c, postpaid. Not prepaid, 30c per lb.

**Challenge Black Wax**—An old favorite and still preferred by many. Pkt., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c, postpaid. Not prepaid, 30c per lb.

**Brittle Wax**—This is the best of the new varieties of wax beans. Pkt., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c, postpaid. Not prepaid, 30c per lb.

**Burpee's Bush Lima**—A bush form of the true large lima bean. Yields well. Does not always mature in this latitude but makes excellent green shelled beans. Pkt. 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c postpaid. Not prepaid 30c per lb.

**Henderson's Bush Lima**—A true bush lima and sure to ripen in enormous crop. Pkt., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c postpaid. Not prepaid 30c per lb.

**Improved Navy, or Boston Pea**—An improved type of the Navy bean which is grown for use as shell beans in the winter. Pkt., 10c;  $\frac{1}{4}$  lb., 15c; lb. 35c postpaid. Not prepaid 25c per lb.



## Pole Beans

These require the support of poles or woven wire fencing.

**Old Homestead**, or Improved Kentucky Wonder. Very productive, entirely stringless, pods of green color. Can be grown with corn. Pkt., 10c; ¼ lb., 15c; lb., 40c, postpaid. Not prepaid, 30c per lb.

**Lazy Wife**—Very much like the above. The ripe beans are white. Pkt., 10c; ¼ lb., 15c; lb., 40c, postpaid. Not prepaid, 30c per lb.

**Golden Cluster Wax**—The most popular variety of wax pole beans. Pods large, fleshy and stringless. Pkt., 10c; ¼ lb., 20c; lb., 45c, postpaid. Not prepaid, 35c per lb.

**Speckled Cut Short**—The cornfield bean. Pkt., 10c; ¼ lb., 15c; lb., 40c, postpaid. Not prepaid, 30c per lb.

**Scarlet Runner**—Planted for its brilliant scarlet flowers. Pkt., 10c; ¼ lb., 20c; lb., 60c.

**King of the Garden Lima**—Pods are of enormous size. Pkt., 10c; ¼ lb., 15c; lb., 50c, postpaid. Not prepaid, 40c per lb.

**Yard Long**—Pods sometimes over three feet long. Pods are tender and of fine flavor. Pkt., 15c; ¼ lb., 25c; lb., 80c, postpaid.



POLE BEANS—OLD HOMESTEAD OR IMPROVED KENTUCKY WONDER

## Mangel or Stock Beets

**Mammoth Golden Giant**—The largest of yellow flesh mangels. It is a most excellent keeper. Oz., 10c; ¼ lb., 25c; lb., 60c postpaid. Not prepaid, 50c per lb.

**Giant Sludstrop**—A variety of exceptionally even growth. Color is reddish yellow. It is the best of all mangels for feeding purposes. Oz., 10c; ¼ lb., 25c; lb., 60c, postpaid. Not prepaid, 50c per lb.

**Mammoth Long Red**—Unexcelled for yielding qualities. Oz., 10c; ¼ lb., 25c; lb., 55c, postpaid. Not prepaid, 45c per lb.

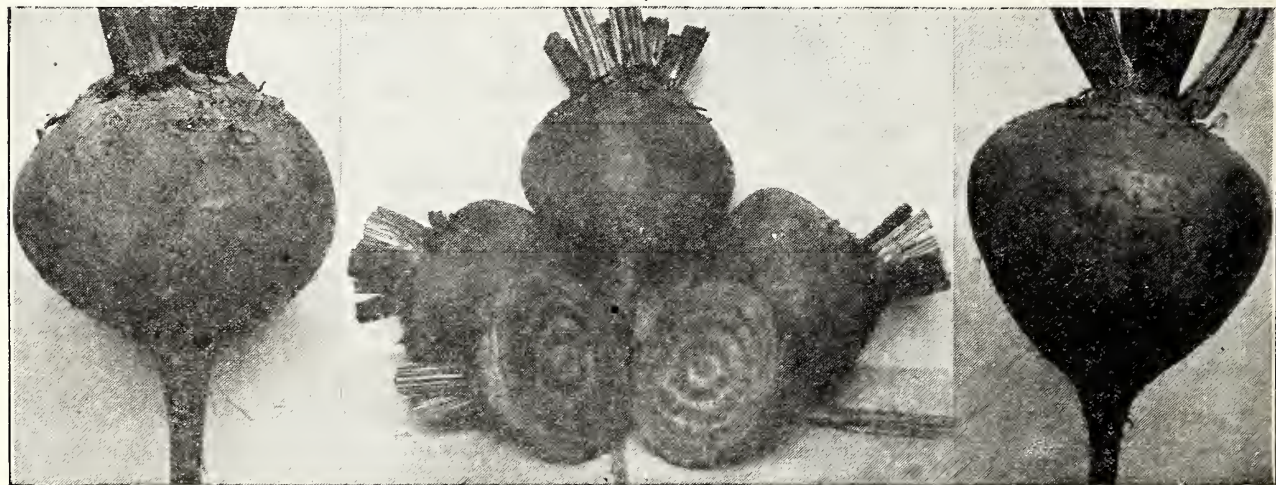
**Giant Half Sugar Mangel**—A hybrid or cross between the Mangel and Sugar Beet. Oz., 10c; ¼ lb., 25c; lb., 60c, postpaid. Not prepaid, 50c per lb.

**Golden Tankard**—Of a rich deep yellow throughout. Oz., 10c; ¼ lb., 20c; lb., 50c, postpaid. Not prepaid, 40c per lb.

**Klein-Wanzleben**—A true sugar beet makes it of great value for feeding. Oz., 10c; ¼ lb., 25c; lb., 70c, postpaid. Not prepaid, 60c per lb.

## Swiss Chard

Prepared the same as asparagus or leaves and stalks used as "greens." Pkt., 10c; oz., 20c; ¼ lb., 40c; lb., \$1.25, postpaid.



DETROIT DARK RED

CRIMSON GLOBE

MARKET GARDENER

## Table Beets

One ounce sows 50 feet of drill; 4 to 6 lbs. for one acre.

**Crosby's Improved Egyptian**—The earliest variety. Regular in shape, smooth with small tops and small tap root. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00, postpaid.

**Early Wonder**—A choice new variety. Globe shaped with deep blood red flesh. Popular with market gardeners for early or late planting. Pkt., 10c; oz., 20c; ¼ lb., 40c; lb., \$1.25, postpaid.

**Detroit Dark Red**—Its roots are round, very smooth, of good marketable size, and for table use is unexcelled. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

**Market Gardeners**—It is early, oval in shape, rich crimson color and excellent quality. Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid.

**Crimson Globe**—A main crop variety, medium size, globe shaped, flesh deep purple. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

## Odd Vegetables

**CHERVIL**—Leaves used in soups and salads. Cultivate like parsley. Pkt., 10c; oz., 25c; ¼ lb., 70c, postpaid.

**CHICORY, Large Rooted**—Used as a substitute for coffee. Pkt., 10c; oz., 25c; ¼ lb., 95c; lb., \$3.25, postpaid.

**CHUFAS**—A ground nut greatly liked by children. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 75c, postpaid.

**COLLARDS**—They are a form of loose-headed cabbage. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.60, postpaid.

**CORN SALAD**—Nice winter salad. Sow in September in drills. Cover in fall with straw or leaves. Pkt., 10c; oz., 20c; ¼ lb., 60c, postpaid.

**COTTON**—Has large, showy flowers, followed by ball of white cotton. Pkt., 5c; oz., 10c, postpaid.

**CRESS, True Water**—Sow seeds along the running water. Pkt., 10c; oz., 45c; ¼ lb., \$1.60, postpaid.

**Upland Cress**—Perennial; hardy; produces well. Pkt., 10c; oz., \$1.00, postpaid.



## Cabbage

One ounce will produce about 3,000 plants. Takes 8,000 to 10,000 plants per acre, of early sorts and 6,000 of large, late kinds.

**Golden Acre**—The earliest of the round headed varieties, medium size heads, solid and very uniform. Fine for market or home garden. Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., \$1.25; lb., \$4.00, postpaid.

**Extra Early Express**—The earliest variety in existence and produces heads before the Jersey Wakefield or other varieties. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 90c; lb., \$3.00, postpaid.

**Early Jersey Wakefield**—Of large size for so early a kind. Heads hard and solid, and have few outside leaves. Pkt., 10c; oz., 25c;  $\frac{1}{4}$  lb., 75c; lb., \$2.50, postpaid.

**Burpee's All-Head Early**—This is the earliest of the flat-headed cabbages, of larger size than earlier varieties. Makes exceptionally solid heads. Pkt. 10c; oz., 30c;  $\frac{1}{4}$  lb., 90c; lb., \$3.00, postpaid.

**Copenhagen Market**—A round headed variety. Claimed to be as early as any pointed headed variety. Very popular with market gardeners. Our seed was grown by the originator in Denmark. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.00, postpaid.

**Improved Danish Ballhead, or Hollander**—Heads medium size, very solid. The best keeper in winter. Pkt., 10c; oz., 25c;  $\frac{1}{4}$  lb., 90c; lb., \$3.00, postpaid.



COPENHAGEN MARKET CABBAGE

**Premium Flat Dutch**—This old and well-known variety is still a standard winter cabbage. Pkt., 10c; oz., 25c;  $\frac{1}{4}$  lb., 75c; lb., \$2.50, postpaid.

**Iowa Seed Company's Short Stem Drumhead**—For sureness in heading, regularity of growth and even, large, solid heads, it far surpasses any other strain of late cabbage. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 90c; lb., \$3.00, postpaid.

**Perfection Drumhead Savoy**—Has curled and crumpled leaves and is of finer flavor than ordinary cabbage. Pkt., 10c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.00, postpaid.

**Mammoth Red Rock**—Is the largest of the red cabbage. Solid, heavy and a good keeper. Pkt., 10c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.00, postpaid.

## Frostproof Cabbage Plants

Grown from fall planted seed, in the South. They grow slowly and become hardened to cold and slight frost. Can be set out in spring much earlier than hotbed or greenhouse plants. Mailed direct from the growers. Any of the following early varieties: Charleston Wakefield, Early Jersey Wakefield, Early Flat Dutch, Copenhagen Market. Not less than 100 of a variety can be shipped. No plants sent out after May 1st. 50c per 100; \$2.00 for 500; \$3.75 per 1,000, postpaid.

## Cauliflower

One ounce will produce about 3,000 plants.

**Henderson's Early Snowball**—Considered the earliest and more certain to make a head than any other sort. Pkt., 20c;  $\frac{1}{4}$  oz., 60c; oz., \$2.00;  $\frac{1}{4}$  lb., \$7.00, postpaid.

**Danish Giant, or Dry Weather Cauliflower**—Heads are extra large, pure white and very solid. Does better in dry seasons than other sorts. Pkt., 20c;  $\frac{1}{4}$  oz., 60c; oz., \$2.00;  $\frac{1}{4}$  lb., \$7.00, postpaid.

## Chinese Cabbage

or Pe Tsai, Sometimes Called Celery Cabbage

FROSTPROOF CABBAGE PLANTS

Everyone likes it. Use like lettuce for salads. Pkt., 10c; oz., 50c;  $\frac{1}{4}$  lb., \$1.50; lb., \$5.00, postpaid.

## Brussels Sprouts

**American Mammoth**—Superior variety of American origin. Pkt., 10c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.00, postpaid.

## Carrots

One ounce for 100 feet of drill. Three or four pounds for one acre.

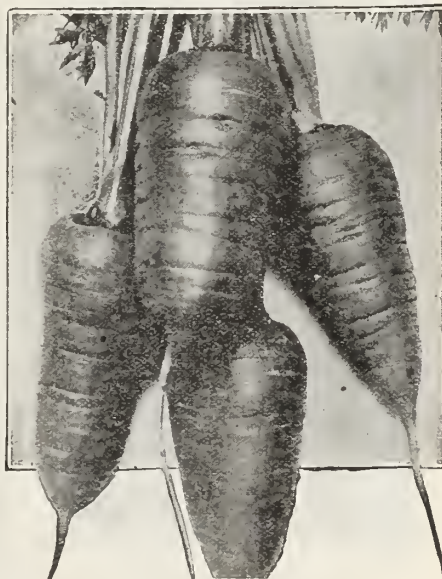
**Early Scarlet Horn**—Favorite extra early variety. Top small, short, stump-shaped root. Grows well in any soil. Pkt., 10c; oz., 20c;  $\frac{1}{4}$  lb. 50c; lb., \$1.25, postpaid.

**Oxheart, or Guerande**—This is the standard garden carrot. Outyields all others. Easy to pull. Best quality, good keeper. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25, postpaid.

**Danvers**—Standard half-long variety. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25, postpaid.

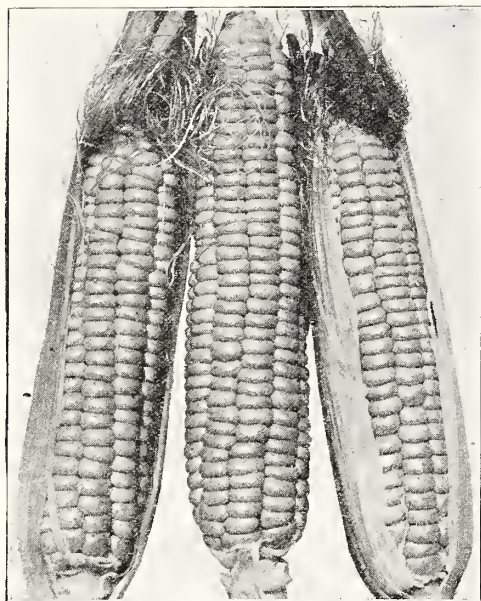
**Chantenay**—Another good garden carrot. Is longer than the Oxheart, not so easy to pull. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25, postpaid.

**Victoria**—Largest carrot grown. Used for stock feeding. Large, light orange. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00; 5 lbs., \$4.25, postpaid.



DANVERS CARROTS





GOLDEN BANTAM

## Sweet Corn

**Early Sunrise**—Is a splendid new variety which we originated. It is undoubtedly the best extra early corn for either private gardens or market. The ears are larger than Golden Bantam and a few days earlier. Sweetest of all early kinds. Often called White Bantam. Pkt., 10c;  $\frac{1}{4}$  lb., 15c; lb., 35c, postpaid. Not prepaid, 25c lb.

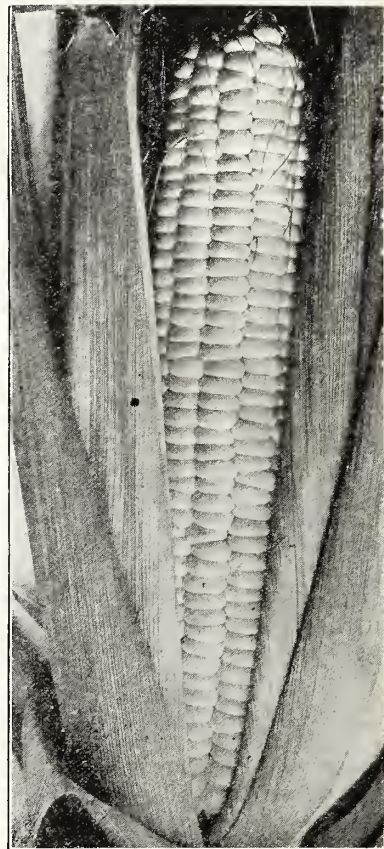
**Improved Golden Bantam**—A well known and quite popular sweet corn about 4 feet high. Well shaped ears which are golden yellow when ripe. Pkt., 10c;  $\frac{1}{4}$  lb., 15c; lb., 35c, postpaid. Not prepaid, 25c lb.

**Champion Early**—Earliest large corn ever introduced, maturing only a few days later than the small eared sorts and producing large 12-rowed ears 8 to 10 inches long. Pkt., 10c;  $\frac{1}{4}$  lb., 15c; lb., 35c, postpaid. Not prepaid, 30c lb.

**Pharaoh's Dream**—The most productive variety of sweet corn ever produced. A few days earlier than Stowell's Evergreen. Pkt., 10c;  $\frac{1}{4}$  lb., 15c; lb., 35c, postpaid. Not prepaid, 25c lb.

**Country Gentleman**—Considered to be the highest quality corn. Pure white, very deep grained and sweet. Pkt., 10c;  $\frac{1}{4}$  lb., 15c; lb., 35c, postpaid. Not prepaid, 30c lb.

**Improved Stowell's Evergreen**—The standard late sweet corn. Always satisfactory. Pkt., 10c;  $\frac{1}{4}$  lb., 15c; lb., 30c, postpaid. Not prepaid, 25c lb.



PHARAOH'S DREAM

## Pop Corn

**Australian Hulless**—The only pop corn worth while raising. The best yielder and best seller. Pkt., 10c;  $\frac{1}{4}$  lb., 15c; lb., 30c, postpaid. Not prepaid, 20c lb.

**Queen's Golden**—A golden yellow variety. Long ears. Looks rich when popped. Pkt., 10c;  $\frac{1}{4}$  lb., 15c; lb., 30c, postpaid. Not prepaid, 20c lb.

**Pop Corn for Popping**—Good quality, hulless variety. Not prepaid, 15c lb; 2 lbs. for 25c; 100 lbs. for \$10.00.

## Celery

(One ounce will produce about 6,000 plants)

**White Plume**—Stalks, portions of the inner leaves and heart naturally white, and become fit for use by simply tying up closely with twine. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.00, postpaid.

**Golden Self-Blanching**—By far the most popular sort; of medium earliness, compact habit, with thick, solid stalks which blanch easily to a clear waxen yellow. Pkt., 10c; oz., 60c;  $\frac{1}{4}$  lb., \$1.50.

**Giant Pascal**—Late variety of superior keeping qualities. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 75c; lb., \$2.50, postpaid.

**Giant Prague Celeriac**—Has a turnip-like root with true celery flavor. Used in soups and stews in place of celery. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 90c; lb., \$3, postpaid.



IMPROVED LONG GREEN

## Cucumbers

(One ounce plants 50 hills, two pounds one acre)

**Early Cluster**—A very desirable early variety. Prolific, good size and fine quality. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25, postpaid.

**Perfect White Spine**—Fruit even, good size, straight, well formed and symmetrical. Immensely productive. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25, postpaid.

**Improved Chicago Pickle**—Medium in size, dark green in color. Considered the best variety for pickles. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25, postpaid.

**Davis Perfect**—Dark, glossy, green, slim and symmetrical with an average length of 10 to 12 inches. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.50.

**Improved Long Green**—A well known standard variety. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.50, postpaid.

**Japanese Climbing**—Will cling to fences or other support. Fine for limited space. Pkt., 10c; oz., 20c;  $\frac{1}{4}$  lb., 70c; lb., \$2.00, postpaid.

**White Wonder**—Pkt., 10c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$1.75, postpaid.

**Lemon**—It is round and about the size of a baseball. Has flavor peculiarly its own. Pkt., 10c; oz., 25c;  $\frac{1}{4}$  lb., 75c; lb., \$2.00, postpaid.

**West India Gherkin, or Burr**—Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., \$1.25, postpaid.



## Lettuce

One ounce will sow 100 feet of drill.

**Early Curled Simpson**—The best known variety of garden lettuce. Beautiful light green, curled leaves. Can be sown from early spring to August. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 45c; lb., \$1.60, postpaid.

**Improved Hanson**—As a head lettuce the Hanson has no superior. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.60, postpaid.

**Black Seeded Simpson**—This is the standard variety with market growers who grow lettuce under glass or in frames. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.40, postpaid.

**Grand Rapids**—A light green, crumpled leaf lettuce, a good garden or forcing variety. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.60, postpaid.

**New York**—A new sort producing immense heads. The interior is beautifully blanched, creamy white, crisp, tender and delicious. A sure header under most trying conditions. Pkt., 10c; oz., 25c;  $\frac{1}{4}$  lb., 75c; lb., \$2.50, postpaid.

**Prize Head**—Heads large and rather loose, with very good flavor. Leaves edged with reddish brown. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.40, postpaid.

**California Cream Butter**—A cabbage lettuce with round, solid head. Inside leaves are very rich cream

yellow color. Rich and buttery to the taste. Heads good size and compact. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.60, postpaid.

**Mixed Lettuce**—A mixture of all the varieties listed. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.40, postpaid.



EARLY CURLED SIMPSON LETTUCE



BLACK SEEDSIMPSON LETTUCE

**Japanese Nest Egg**—Grows almost uniformly to the size, color and shape of a hen's egg. The shells are hard and make the very best nest eggs. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 70c, postpaid.

**Dipper**—Makes a light, convenient dipper. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 70c, postpaid.

**Sugar Trough**—Very large and strong grower. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 70c, postpaid.

**Luffa, or Dishcloth**—Has a peculiar lining, making a natural dishcloth or sponge. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 70c, postpaid.

**Hercules' Club**—Grows to immense size—4 to 5 feet in length. Sold by some as Tasmanian Bean. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 65c, postpaid.

**Mixed Utility**—Seeds of the above, mixed. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 65c, postpaid.

## Kohl Rabi

Most excellent vegetable, intermediate between the cabbage and turnip. Cultivate like cabbage.

**Goliath Purple**—Of immense size. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 65c; lb., \$2.25.

**Early White Vienna**—The flesh is white and tender. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 65c; lb., \$2.25, postpaid.

## Endive

One ounce will sow about 60 square feet.

**Giant Fringed**—Also called winter lettuce. Strong, vigorous grower, making large white heart. Leaves are beautifully curled. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 50c; lb., \$1.50, postpaid.

## Egg Plant

**Improved New York**—Our strain of this leading market variety we believe to be unsurpassed. Very large size, skin deep purple, flesh white, of excellent quality. Very productive. Pkt., 10c; oz., 60c;  $\frac{1}{4}$  lb., \$2.00; lb., \$6.00, postpaid.

## Ground Cherry

**Improved Yellow**—Ground cherries are a most excellent garden fruit. They have a delicious flavor. Pkt., 10c;  $\frac{1}{2}$  oz., 25c; oz., 45c;  $\frac{1}{4}$  lb., \$1.40, postpaid.

**Large Purple**—The old-time purple ground cherry. Fruits are much larger than the yellow but not so rich in quality. Pkt., 10c;  $\frac{1}{2}$  oz., 25c; oz., 45c;  $\frac{1}{4}$  lb., \$1.40, postpaid.

## Gourds

Cultivate like cucumbers. They may be trained over lattice work, fences, etc.



GARDEN HUCKLEBERRY

## Garden Huckleberry

Grows about three feet high and just loaded with clusters of berries, which are jet black when ripe. Make delicious pies, preserves and jams. Directions for cooking with each packet. Not edible when raw. Pkt., 10c; oz., \$1.00;  $\frac{1}{4}$  lb., \$2.50, postpaid.



## Muskmelons

One ounce will plant about 80 hills; two pounds to the acre.

**Hale's Best**—A remarkably early melon, the choice of the commercial grower. Thick, salmon colored flesh. Oval shape, netted and fairly distinctly ribbed. Pkt., 10c; oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.

**Early Bird**—An extra early variety. Popular with Des Moines market gardeners. Yellow meated, netted, slightly larger than the Rocky Ford. Pkt., 10c; oz., 20c; ¼ lb., 70c; lb., \$2.00, postpaid.

**Emerald Gem**—A good early home garden variety, lightly netted, yellow meated. Very prolific. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.50, postpaid.

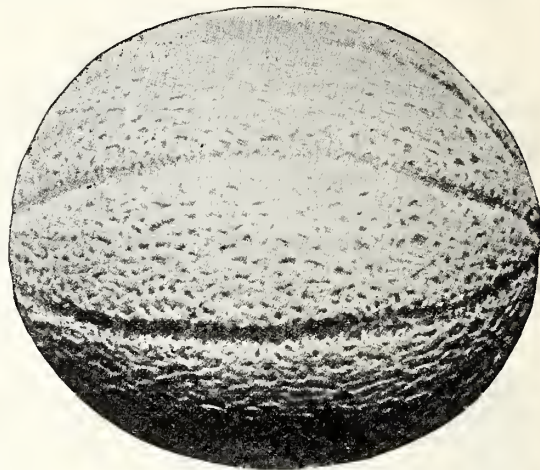
**Burrell Gem**—A truly delicious melon about the size and shape of Rocky Ford, but has rich golden yellow flesh. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid.

**Thoroughbred Rocky Ford**—Flesh thick, of light green color and fine, juicy, luscious flavor. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid.

**Improved Green Nutmeg**—The best of the green fleshed sorts. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid.

**Osage**—Flesh salmon color, sweet and spicy; very thick and delicious. Medium size oval. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., \$1.50, postpaid.

**Tip Top**—Flesh very thick, salmon colored and of better flavor than any other large melon. Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid.



HALE'S BEST MUSKMELON

**Banana**—Attain a length of from 1½ to 3 feet; 3 to 4 inches thick. Has a pleasing flavor. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.40, postpaid.

**Honey Dew**—Flesh is light green and sweet as honey. Keeps good for months in a cool place. Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., \$2.00, postpaid.

## Watermelons

One ounce is required for 40 hills; three pounds will plant an acre.

**Golden Sweet**—The Golden Sweet is a most delicious and fine flavored melon. Skin is dark green. Shape oblong; averages about 20 pounds. Rind very thin, but hard and will carry without cracking. Flesh old gold yellow. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.50, postpaid.

**Cole's Early**—Very early and will mature farther north than most sorts. Of medium size. Flesh bright red. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00, postpaid.

**Peerless or Ice Cream**—Very early, medium size, rind thin, flesh bright scarlet. Great home market melon. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00, postpaid.

**Monte Cristo or Kleckley's Sweet**—A wonderful popular variety. Flesh bright red, rich, crisp and pleasant flavored. It ripens early; is of good size. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00, postpaid.

**Tom Watson**—The leading market melon. Hardy, good quality, good shape, large size and always solid. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.



MONTE CRISTO WATERMELON

**Sweetheart**—A large round melon with a light colored rind. Splendid quality. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

**Halbert Honey**—Has no equal as a home or nearby market melon, but will not stand much handling. Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.25, postpaid.

**Irish Grey**—New variety best described as a light rind Tom Watson. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.25, postpaid.

**Mixed Watermelon**—As the seasons vary, some varieties of melons do better than others. By planting mixed watermelons you get a good crop every year. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

## Vine Peach

The fruit is about the size of a large peach, oval shaped, and is of a bright orange yellow color. For sweet pickles, pies or preserving they are superb. Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., \$2.00, postpaid.

## Citron Melon

Better than melon rinds for preserving.

**Apple Pie**—The flesh is white, solid throughout and of excellent quality for making pies, preserves, etc., and resembles apples in flavor. Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., \$1.75, postpaid.

## Pomegranate

An interesting little orange and brown spotted melon. Also called Queen Ann melon. Pkt., 10c; oz., 30c; ¼ lb., 90c; lb., \$2.75, postpaid.

## Mustard

**Ostrich Plume**—Its leaves are long, ruffled, frilled and curved. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

**Southern Giant Curled**—This is the true curled leaf variety. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**White English**—Its seed used for culinary purposes. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.



## Onions

**Extra Early Barletta**—They are of a pure white color, and in size grow 1 to 1½ inches in diameter. Fine for pickling. Pkt., 10c; oz., 30c; ¼ lb., 90c; lb., \$3.00, postpaid.

**Large White Globe**—Market variety. Beautiful, clean, pure white bulbs. Large, even size, globe shape. Pkt., 10c; oz., 30c; ¼ lb., \$1.00; lb., \$3.50, postpaid.

**Mammoth Silver King**—The largest pure white onion. Slightly flattened but thick through. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50, postpaid.

**Golden Globe**—Offered by us as the very best yellow globe-shaped onion for general culture. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50, postpaid.

**Mammoth Prizetaker**—One of the largest of yellow onions. Of a clear, bright straw-color and uniform perfect globe shape. Pkt., 10c; oz., 30c; ¼ lb., 90c; lb., \$3.00, postpaid.

**Large Red Weathersfield**—Is the standard sort, the easiest to grow and the surest to make a crop. Of finest form, skin deep purplish red. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50, postpaid.

**Southport Red Globe**—Grows to large size. Skin, deep red; flesh, fine grained, mild and tender. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50, postpaid.

## Onion Sets

### Bottom Onion Sets

Produce the best quality of young green onions.

**White Bottom Sets**—35c per lb.; 3 lbs. for \$1.00, postpaid. Not postpaid, peck, \$1.50; bu., \$4.50.

**Red Bottom Sets**—35c per lb.; 3 lbs. for \$1.00, postpaid. Not postpaid, peck, \$1.50; bu., \$4.00.

**Yellow Bottom Sets**—35c per lb.; 3 lbs. for \$1.00, postpaid. Not postpaid, peck, \$1.50; bu., \$4.50.

**Potato Onion Sets**—A species of Multiplier onion, increasing from bulb. ½ lb., 20c; lb., 40c; 3 lbs., \$1.00, postpaid.

**Perennial, or Winter Sets**—Also called Egyptian or Tree Onions. Produce earliest spring onions. 30c per lb., 3 lbs., 85c, postpaid. Not postpaid, peck, \$1.00; bu., \$3.00.

## Parsnips

One ounce will sow 200 feet of drill. Five pounds will sow an acre in drills.

**Improved Guernsey**—The roots are smooth, fine-grained and will cook as quick as potatoes. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.00, postpaid.

**Hollow Crown**—An old standard and still good. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.00, postpaid.

## Parsley

One ounce will sow 150 feet of drill.

**Market Gardener's**—Dark Green curled, mossy leaves, very productive. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$1.25, postpaid.

**Champion Moss Curled**—Finely crimped and curled. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

**Hamburg**—Turnip-rooted variety, used for flavoring soups. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$1.25, postpaid.

## Peanuts

**Early Spanish**—This variety can be grown and will ripen in Iowa. Pkt., 10c; lb., 40c; 3 lbs., \$1.00, postpaid.

## Okra

**Early Prolific**—The earliest and most prolific. Just the sort for the north. The numerous pods are thick fleshed and keep coming until frost. Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid.

**White Velvet**—Pods are round and smooth, of attractive appearance. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00, postpaid.

## Kale

**Extra Curled Mossback**—A most attractive variety; fine crimped leaves. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., \$1.50, postpaid.

## Leek

**Large Rouen**—Largest and most uniform sort. Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., \$2.00, postpaid.

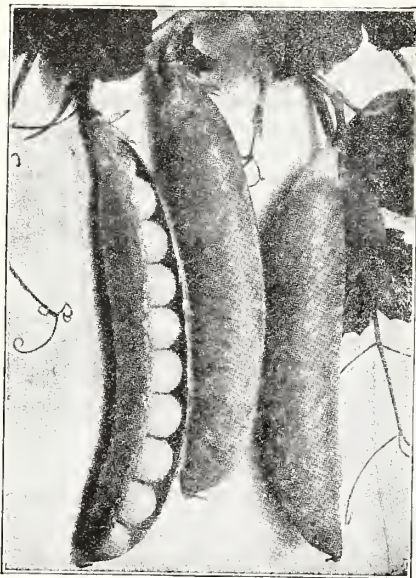


SOUTHPORT RED GLOBE ONIONS



RED, WHITE AND YELLOW BOTTOM ONION SETS





GRADUS OR PROSPERITY PEAS

**\*Gradus or Prosperity**—This remarkable pea is not only large and of best quality, but it is nearly as early as the small early sorts. 2-oz. pkt., 10c; ¼ lb., 15c; lb., 40c, postpaid. Not prepaid, 30c per lb.

**\*Everbearing**—Fine for main crop. Grows about 2 feet high, strong and vigorous. Continues to grow and produce pods of good size. 2-oz. pkt., 10c; ¼ lb., 15c; lb., 40c, postpaid. Not prepaid, 30c per lb.

## Peas

One pound will plant about fifty feet of drill.

Wrinkled varieties are marked \*.

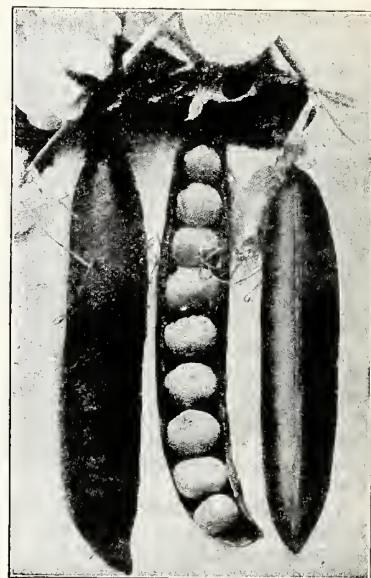
**Alaska**—Height, 2 feet. The earliest pea known, being earlier than Pedigree Extra Early. 2-oz. pkt., 10c; ¼ lb., 15c; lb., 40c, postpaid. Not prepaid, 30c per lb.

**Pedigree Extra Early**—The best of the extra early varieties. Height, 12 inches. 2-oz. pkt., 10c; ¼ lb., 15c; lb., 40c, postpaid. Not prepaid, 30c per lb.

**\*Little Marvel**—Strong vine about 14 inches high, productive. 2-oz. pkt., 10c; ¼ lb., 15c; lb., 45c, postpaid. Not prepaid, 30c per lb.

**\*American Wonder**—Popular extra early variety for family garden. Produces good-sized, well-filled pods of finest flavored peas. 2-oz. pkt., 10c; ¼ lb., 15c; lb., 40c, postpaid. Not prepaid, 30c per lb.

**\*Nott's Excelsior**—This is an improved Premium Gem. The improvement is in size of pods and productiveness. 2-oz. pkt., 10c; ¼ lb., 15c; lb., 40c, postpaid. Not prepaid, 30c per lb.



EVERBEARING PEAS

**\*Improved Stratagem**—Noted for the immense size of pods and peas. 2-oz. pkt., 10c; ¼ lb., 15c; lb., 40c, postpaid. Not prepaid, 30c per lb.

**\*Champion of England**—Well-known standard sort; grows 4 to 5 feet high and requires support. 2-oz. pkt., 10c; ¼ lb., 15c; lb., 40c, postpaid. Not prepaid, 30c per lb.

**Mammoth Luscious Sugar**—The largest of the edible pod varieties. Requires support. Pkt., 10c; ¼ lb., 15c; lb., 45c, postpaid. Not prepaid, 30c per lb.

## Peppers

One ounce will produce about 1,800 plants.

**Coral Bouquet**—Very small, bright red and very hot. Pkt., 10c; oz., 75c; ¼ lb., \$2.25, postpaid.

**Red Chili**—Small, long fruit, but very hot. Used for pepper sauce. Pkt., 10c; oz., 50c; ¼ lb., \$1.60, postpaid.

**Sunnybrook**—The best of the pimento class of sweet peppers. A bright red in color, about 2½ inches in diameter and is thick fleshed. Pkt., 10c; oz., 75c; ¼ lb., \$2.25, postpaid.

**Pimento**—A new and distinct pepper. Perfectly sweet. Does not ripen this far north. Pkt., 10c; oz., 50c; ¼ lb., \$1.50, postpaid.

**Chinese Giant**—Most gigantic of all giant peppers. A fine, mild pepper of enormous size, and brilliant, glossy scarlet color. Pkt., 10c; oz., 60c; ¼ lb., \$2.00, postpaid.

**Ruby King**—The standard variety for mangoes or sweet pickles. Fruits large, uniform, thick-meated and smooth. Mild flavor. Pkt., 10c; oz., 75c; ¼ lb., \$2.25, postpaid.

**Mixed Peppers**—A mixture of the above and other fancy varieties. Pkt., 10c; oz., 50c; ¼ lb., \$1.60, postpaid.

## Pumpkin

One ounce will plant 25 hills; 4 pounds will plant one acre.

**Yankee Pie**—The New England Pie or Small Sugar pumpkin. Very sweet, fine grained and one of the best varieties for table use. Early. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00, postpaid.

**Large Cheese**—Commonly known as "Sweet Pumpkin." Flat shaped with creamy buff skin and thick golden flesh. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid. Five pounds by express or freight at 50c per lb.

**Golden Russet**—Also called Winter Luxury. Golden yellow, netted or russeted over surface. Small to medium size. Unsurpassed as a pie pumpkin and a good seller on market. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.50, postpaid.

**Golden Cushaw or Jonathan**—Large size, crooked neck shape of clear old gold color. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.50, postpaid.

**Japanese Pie**—This is similar in size and form to the Cushaw, but the skin is deep green. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.50, postpaid.

**King of Mammoths**—Very large, bright yellow, fine grained and of good quality. Pkt., 10c; oz., 20c; ¼ lb., 70c; lb., \$2.00, postpaid.

**New Atlas**—The largest of them all. Flesh rich yellow, very thick. Pkt., 10c; oz., 20c; ¼ lb., 70c; lb., \$2.00, postpaid.

**Connecticut Field**—The common field or cow pumpkin. Oz., 10c; ¼ lb., 25c; lb., by mail, 75c. Not prepaid, 10 lbs., \$6.00.



YANKEE PIE PUMPKIN





IRISH COBBLER POTATOES

**Seed Sweet Potatoes**

Thrive on any of the loam soils of the Middle West, and do especially well on sandy ground. We usually ship from April 12th to 20th and notify customers when we start them.

**Early Yellow Jersey**—Holds first place. Earliest and most productive; of large, short, chunky shape and of best quality. 10 lbs., \$1.25; one bushel basket, \$3.25.

**Nancy Hall**—A variety originated in the South. Flesh is dark colored and cooks a bright orange. Splendid for baking and is extra sweet and full of sugar. 10 lbs., \$1.25; one bushel basket, \$3.50. Ask for prices in quantities.

**Bermuda Onion Plants**

These plants produce the large sweet onion that you often see on the market.

These plants are grown from seed planted in Texas last fall. The young green plants are shipped to us and are ready to be transplanted and continue to grow. They should be planted early as they will stand a light frost.

Plants are guaranteed to arrive in good condition. Prices: 100 for 35c; 500 for \$1.25; 1000 for \$2.00 postpaid.

In full crates of 6,000 plants, shipped fresh, direct from Texas growers, not prepaid, \$5.00 per crate.



NO. 4 PLANET JR. DRILL AND CULTIVATOR

**Planet Jr. No. 4 Seeder and Cultivator**—The No. 4 is the most popular combined garden seeder, plow and cultivator for small garden owners. Price complete, \$18.00. As a seeder only, \$14.25.

**Planet Jr. No. 3 Hill and Drill Seeder**—A seeder only. Price, \$17.50.

**Planet Jr. No. 12 Double Wheel Hoe**—A double and single wheel hoe in one. Price, \$10.75.

**Planet Jr. No. 18 Single Wheel Hoe**—A single wheel hoe, has one pair of 6-inch hoes. Price, \$5.75.

Ask for complete Planet Jr. catalog.

**SEED POTATOES****Extra Early Ohio**

A special favorite with marketmen, and the most profitable they can grow. On account of early maturity you get the highest market prices. Will keep firm until late in the spring. Frequently sold under the name Early Six Weeks.

**Extra Early Triumph**

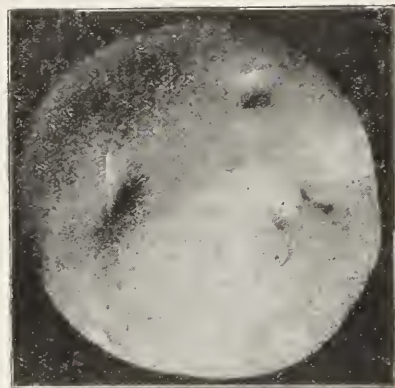
A popular first early variety. This is the round, red potato which is generally in our markets as new potatoes early in spring. The color is bright red.

**Irish Cobbler**

Has the form and color so popular in the market. Is prolific and profitable to the grower and has become a much prized variety.

**Rural New Yorker**

Preferred by large buyers because it is large, unusually smooth, with few and shallow eyes, skin white as is also flesh, which is of good quality. Medium late and the best drouth resister.

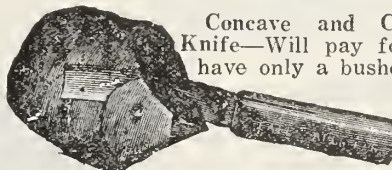


EXTRA EARLY TRIUMPH

**Garden Tools**

**Concave and Curved Seed Potato Knife**—Will pay for itself even if you have only a bushel of potatoes to cut.

Allows the giving of each eye its full portion of the potato. 30c each postpaid.



**Eureka Potato Planter**—The best hand potato planter that we know of, as it does the work perfectly. Price, \$1.50 by express.



**Excelsior Weeding Hook**—Can be used to advantage among small and tender plants. By parcel post, each, 25c; dozen, \$2.50; by express, 20c; dozen, \$2.25.



EUREKA POTATO PLANTER

Ask for Descriptive Circular of Garden Tools



## Radish

One ounce will sow 100 feet of drill. Eight to ten pounds will sow one acre in drill.

**Early Bird**—The earliest of radishes. Round or turnip shape, of bright scarlet color and pure white flesh. Very desirable for the home garden. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00, postpaid.

**Early Scarlet Globe**—This is the standard early round red radish. Is the gardener's stand by for first early radish. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid.

**French Breakfast**—Of medium size and olive shape, with small top. Quick growth, beautiful scarlet color, shading to white at the tip. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00, postpaid.

**Crimson Giant**—A rapid-growing variety, developing roots of beautiful deep crimson, perfect in shape and grows large without getting pithy. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00, postpaid.

**Violet Queen**—A small round or turnip-shaped variety of a beautiful violet-purple color, shading to white near the tip. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$1.50, postpaid.

**Icicle**—The favorite long white variety. Grows uniform in type and there are none that surpass it in quality. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid.

**Early Long Scarlet or Short Top**—An old standard variety of quick growth, long, slender root. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid.

**Sparkler**—This is an extra early, white-tipped, round radish. The white tip is larger and more pronounced than in any other sort. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid.

**White Strasburg**—Of handsome, oblong shape, both skin and flesh being pure white. Excellent for summer use. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid.

**Mixed Radish**—Mixture contains all shades and shapes. One sowing does for the whole season, as they come early, medium and late. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00, postpaid.

## Winter Radish

**China Rose Winter**—A bright rose-colored variety. The most popular of the winter radishes. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00, postpaid.

**Long Black Spanish**—A large, black-skinned radish, with firm white flesh of pungent flavor. A good keeper. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00, postpaid.

## Spinach

One ounce to 80 feet of drill; 10 pounds will sow one acre.

**New Zealand**—This is a variety of great merit. It is of the "cut and come again" type of plants. It is ready to use by the time the early spinach has gone to seed and will continue to grow and produce its clusters of thick leaves until frost. Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., \$1.75, postpaid.

**Long Standing**—This is standard with gardeners. The leaves are fleshy. Pkt.,



SCARLET GLOBE RADISH

5c; oz., 10c; ¼ lb., 20c; lb., 50c, postpaid.

**Victoria**—A variety distinguished for its very long standing qualities. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c, postpaid.

**Bloomsdale**—Savoy-leaved, curled sort. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c, postpaid.

## Salsify

Or Vegetable Oyster

One ounce sows 50 feet of drill.

**Mammoth Sandwich Island**—The best variety. The roots are white, smooth, and of superior quality. Pkt., 10c; oz., 30c; ¼ lb., 75c; lb., \$2.75, postpaid.

## Rhubarb

One ounce will produce about 100 plants.

**Wineplant, or Strawberry Rhubarb**—The finest and richest flavored rhubarb. Stalks are smaller than other sorts, of a bright red color, and cook red. Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., \$2.00, postpaid.

**Victoria**—The standard variety. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid.

**Ideal Mammoth**—The largest pie plant. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.25, postpaid.

## Rhubarb Roots

The roots we offer are large divided plants. Plant spring or fall setting three feet apart. We can supply plants of the three varieties described above. Specify the kind you want. Price each, 30c; 3 for 80c, postpaid. Not prepaid, 12 for \$1.35; 100 for \$9.50.

## What Our Customers Say

Dear Sirs:

*The seeds came and are O. K. I have purchased seeds from The Iowa Seed Company of Des Moines, Iowa, for more than forty years.*

*Yours very respectfully,*

*(Signed) Mrs. A. W. Wolever,  
Delphi, Ind.*

\* \* \*

Gentlemen:

*Please accept my thanks for the promptness and care with which you filled my small order for seeds. Also for the free packet of seeds. I sent order first of week and received it in less than a week.*

*Very truly,*

*(Signed) E. H. Engelhart,  
Seneca, Mo.*

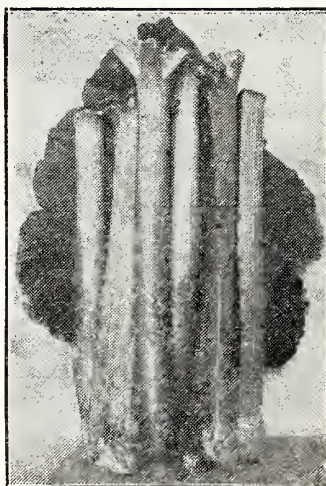
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Kind Sirs:

*I will write a few words of congratulation. I like to deal with The Iowa Seed Company. I am well pleased with all seeds I get from The Iowa Seed Co. I remain,*

*Yours respt.,*

*(Signed) David Scott,  
Ashland City, Tenn.*



VICTORIA RHUBARB



## Squash

One ounce of early varieties will plant about 40 hills, 2 pounds per acre. One ounce late varieties will plant about 20 hills, 4 pounds per acre.

**Table Queen Squash**—Introduced by us, and listed for several seasons under the name Des Moines squash. Just the right size, averaging 6 inches long and 4 inches in diameter. Color, dark green; shell hard, smooth and rigid. Just wash it clean, cut in half, take out the seeds, bake 20 minutes and you will have the nicest squash you ever tasted. Splendid for pies. Ripens in the fall. Pkt., 10c; oz., 25c; ¼ lb., 50c; lb., \$1.25, postpaid.

**Early Prolific Marrow**—Color, brilliant orange-red. Good cooker and keeper. Useful as an early fall variety. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50, postpaid.

**True Hubbard**—This is the most popular winter squash grown. Hard, green shell; flesh bright orange-yellow, fine grained, very dry, sweet and rich flavor; keeps well. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.25, postpaid.

**Golden Hubbard**—Also called Red Hubbard. A counterpart of the old Green Hubbard, except in color, which is bright, deep orange-yellow. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.25, postpaid.

**Syme's Blue Hubbard**—A new strain of Hubbard. Color, clear, light blue; thick shelled and a good keeper. Pkt., 10c; oz., 25c; ¼ lb., 55c; lb., \$1.40, postpaid.

**Banana**—A distinct variety of fall and winter squash. Very prolific. Grows to 2 feet or over in length; very fine grained, heavy. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.25, postpaid.

**Golden Bush**—The earliest of all and quite a favorite with all who like summer squash. Bright golden yellow color and of excellent quality. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50, postpaid.



TABLE QUEEN SQUASH

**White Bush Scalloped**—Like Golden Bush. Sometimes called "Patty Pan." Differs from the Golden Bush in color only. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50, postpaid.

**Early Bush Crookneck**—Splendid, early, productive and of fine quality. Shape long, with curving neck; skin warty. Pkt., 5c; oz., 25c; ¼ lb., 50c; lb., \$1.25, postpaid.

## Turnips

One ounce will sow 150 feet of drill; 2 pounds will sow an acre.

For early, sow in April in drills half an inch deep and 12 inches apart; thin to 6 inches apart in the drill. For main crop sow broadcast in July and August, and before a shower if possible.

**Early White Model**—The handsomest and earliest. Fine grained and sweet. Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.00, postpaid.

**Extra Early Purple Top Milan**—Much like the above, but has purple top. Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.00, postpaid.

**White Egg**—A quick growing, egg-shaped, perfectly smooth, pure-white variety with small top and rough leaves. The flesh is very sweet. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., \$1.00, postpaid.



PURPLE TOP GLOBE TURNIPS

**Golden Ball (Orange Jelly)**—A beautiful bright yellow fleshed turnip of medium size and universally sweet and delicious flavor. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00, postpaid.

**Purple Top Globe**—The largest yielder of any turnip on the list. True to its name in shape and color. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c, postpaid. Not prepaid, 50c per lb.

**Purple Top Strap Leaved**—The standard for late planting. Of good size, flat shape, pure white below with purplish-red top. Excellent keeper. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid. Not prepaid, 50c per lb.

## Rutabaga

Also called "Swede" turnips. A splendid table vegetable, also grown for stock feeding. Superior to turnips in quality.

**Improved American**—Very solid, good shape, smooth skin, small neck, keeps well. Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., 90c, postpaid.

## Strawberry Plants

Strawberries will grow in any climate and thrive in most any soil. They are so easily grown and so abundantly satisfactory that they should be in every garden. We are offering just one variety of the June Bearing and one variety of the Everbearing sort.

**Senator Dunlap (June Bearing)**—Of medium size, very hardy and productive. Vigorous grower. Remains in bearing until quite late. Is unsurpassed in quality. Is still the best all-around variety. Dozen, 50c; 100 for \$1.75, postpaid. Not postpaid, 100 for \$1.50; 1,000 for \$11.50.

**Mastodon (Everbearing)**—Of vigorous habits. The plants multiply better than most of the everbearing varieties. The berries are smooth and uniform in size; of deep crimson, glossy color and of excellent quality. Dozen, 75c; 100 for \$3.00, postpaid. Not postpaid, 100 for \$2.50; 1,000 for \$20.00.





MAJESTIC TOMATO

**Marglobe**—A main crop variety. Solid, good flavor, medium size, smooth red and globe shape. A large yielder in any section. Pkt., 10c; oz., 50c; ¼ lb., \$1.75; lb., \$6.00, postpaid.

**Majestic**—An exceptionally good, large, main crop variety. Rosy pink in color. Pkt., 10c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00.

**Red Majestic**—A companion of the Majestic variety. Cardinal red in color. Pkt., 10c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00.

**Golden Majestic**—This bright yellow tomato completes the Majestic trio. Pkt., 10c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00.

One packet each of the three Majestics for 25c, postpaid.

## Herbs

**Anise**—Seeds of agreeable aromatic taste. Pkt., 5c; oz., 25c.

**Basil, Sweet**—For flavoring soups. Pkt., 5c; oz., 15c.

**Caraway**—Seeds are used for flavoring bread, cookies, etc. Pkt., 5c; oz., 15c.

**Catnip or Catmint**—For seasoning. Pkt., 5c; oz., 30c.

**Coriander**—Seeds used in confectionery. Pkt., 5c; oz., 15c; ¼ lb., 25c; lb., 75c, postpaid.

**Dill**—Used in making dill pickles. Pkt., 5c; oz., 15c; ¼ lb., 30c; lb., 80c, postpaid.

**Lavender**—Used as a perfume. Pkt., 10c; oz., 25c.

**Majoram, Sweet**—For seasoning. Pkt., 5c; oz., 20c.

**Poppy or Maw**—Blue seeded. Pkt., 5c; oz., 10c.

**Rosemary**—Aromatic leaves for seasoning. Pkt., 10c; oz., 60c.

**Sage**—Much used for dressing. Pkt., 10c; oz., 40c; ¼ lb., \$1.25.

**Summer Savory**—Used for flavoring. Pkt., 5c; oz., 20c.

**Thyme**—Leaves used for seasoning. Pkt., 5c; oz., 40c.

**Wormwood**—Used medicinally and also for poultry. Pkt., 5c; oz., 25c.

**Mixed Varieties**—A mixture of all the above. A nice garden assortment. Pkt., 5c; oz., 20c; ¼ lb., 65c, postpaid.

## Mushrooms

The spawn we offer gives good results. Directions for culture sent on application. Per brick of 1 lb., by mail, 40c. By express or freight, not prepaid, 5 bricks, \$1.25; 10 bricks, \$2.25; 100 bricks, \$20.00.

## Tomato

One ounce will produce about 2,500 plants.

**Bonnie Best**—A very early and desirable variety. The fruits are attractive in shape, solidity and color, which is bright scarlet. Pkt., 10c; oz., 35c; ¼ lb., \$1.00; lb., \$3.50.

**John Baer**—This variety is offered as one of the earliest for home and commercial use. Pkt., 10c; oz., 35c; ¼ lb., \$1.00; lb., \$3.50.

**Dwarf Champion**—Also called Tree Tomato. Plant is dwarf and compact, stem stiff and short jointed. Early. Color, purplish pink. Pkt., 10c; oz., 35c; ¼ lb., \$1.10; lb., \$4.00.

**Matchless**—Well worthy of its name, for in beauty, color and symmetry of form it is without a peer. Pkt., 5c; oz., 30c; ¼ lb., \$1.00; lb., \$3.50.

**Superlative**—The best of all the main crop tomatoes. Fruits are medium size, very solid and without exception the best flavored red tomato we have ever grown. It is very handsome, being a pinkish crimson in color. Pkt., 10c; oz., 50c.

**Livingston's Beauty**—A standard variety that always gives satisfaction. In color it is purplish red. Pkt., 10c; oz., 35c; ¼ lb., \$1.10; lb., \$4.00.

**Ponderosa**—A well-known variety, rather late to mature. Fruits are very large and solid, of purple color. Inclined to be irregular in shape. Pkt., 10c; oz., 45c; ¼ lb., \$1.50; lb., \$5.50.

**Golden Queen**—Large yellow. Its fruit is smooth and of finest flavor. Pkt., 5c; oz., 30c; ¼ lb., \$1.10; lb., \$4.00.

## Preserving Tomatoes

**Golden Nugget**—Has no equal as a preserving Tomato. Fruits are beautiful golden yellow, about as large as a hulled black walnut. Pkt., 10c; oz., 50c; ¼ lb., \$1.75, postpaid.

**Yellow Pear**—Pkt., 10c; oz., 40c; ¼ lb., \$1.00, postpaid.

**Crimson Currant**—A novel little fruit of bright crimson color; borne in clusters. Pkt., 10c; oz., 60c, postpaid.

## Garden Plants

**Asparagus Roots**—Washington—Our roots are extra strong and healthy. Doz., 50c; 100 for \$2.50, postpaid. Not prepaid, 100 for \$1.75; 1000 for \$12.50.

**Calamus**—Plain Leaf (Acorus). Also called "Sweet Flag." The roots are the part used. Each, 15c; doz., \$1.50, postpaid.

**Chives**—Perfectly hardy little perennials of the onion tribe, and are grown entirely for their tops. Roots per bunch, 15c; 3 for 40c, postpaid.

**Garlic**—Species of onion. It is quite pungent, and is used for flavoring soups, stews, etc. Per lb., 70c, postpaid. By express, 5 lbs. or more at 40c per lb.

**Horse Radish**—Grow it in your own garden and grate fresh. Price, crown sets, 50c per doz.; \$2.50 per 100, postpaid. Root cuttings, 25c per doz.; \$1.50 per 100, postpaid. Ask for price in large lots.

**Monarda Didyma**—Also called Scarlet Bergamot and Oswego Tea. Each, 15c; 3 for 40c; doz., \$1.25, postpaid.

**Peppermint**—All children know and like the flavor of peppermint. It has a high medicinal value. Each, 15c; 3 for 40c; doz., \$1.40, postpaid.

**Spearmint**—Commonly called mint, used for flavoring salads, garnishing meat, etc. Each, 25c; 3 for 40c; doz., \$1.00, postpaid.



ASPARAGUS ROOTS



# FARM SEED DEPARTMENT



All the wealth of Agriculture is taken from the soil. No matter how rich the soil the right seed must be selected to turn this fertility into marketable form.



The best seed is always cheapest in the end, for it makes the most profit for the grower.

In selecting crop seed we keep in mind, always, the greatest yield with the least labor.

IOWA SHIELD BRAND SEED has made its reputation on this basis. Free from weeds, hardy varieties, high yielding strains, all make for a higher yield per acre with less labor per bushel.

Iowa Shield Brand seeds are not sold through dealers. Order direct from us to get the genuine Iowa Shield Brand.

**SHIPPING**—Our shipping facilities are excellent, and we can give you prompt service. We do not pay freight or express on farm seeds, but we deliver to the depot here and furnish bags without charge.

**PRICES**—Prices named in this department are subject to important market changes. We print a weekly price list during the spring season. If you will write us, sending list of your requirements, we will take pleasure in sending samples and quoting latest prices.

You take no risk when you order from us as all orders are sent out with the understanding that seed must be satisfactory to you or it may be returned to us within 15 days and the money paid will be refunded. This gives you time to inspect and test or to have it inspected and tested by any authority, and we will abide by the report. There is no sale until you are satisfied.

**ABOUT WARRANTING**—We thoroughly test all our seeds and nothing is sent out which we do not believe to be good in every respect. However, we give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned, and the money paid for same will be refunded. We know of no responsible seed firm in the world which guarantees seeds any further than this.

## Seed Disinfectants

The treatment of seeds with Semesan Disinfectants shows a decided improvement in the quality and quantity of the crop. You should use these treatments on all the seed you plant. Ask for descriptive circulars. They are free.

## CLOVER AND GRASS SEEDS

### Clovers

We do not handle imported clover or alfalfa as quality is always inferior, besides the danger of weed seeds.

**Medium or Common Red Clover**—This is the most important of all clovers and the standard everywhere for hay and pasture. See Red Ink List.

**Mammoth Red Clover**—This is also called Sapling or Pea Vine clover. It resembles the Medium Red, but grows coarser and more vigorous. See Red Ink List.

**Alsike Clover**—Alsike clover is a perennial variety and because it does not die out, it is preferred for permanent pastures and meadows. See Red Ink List.

**White Dutch Clover**—The low-growing, creeping, hardy, white-flowered sort. Its principal use is in permanent pastures. Per lb., 75c, postpaid. See Farm Seed Price List for quantity prices.

**Timothy and Alsike Mixture**—We mix this ourselves to safeguard quality and proportion. Twenty-five pounds Alsike to 75 pounds Timothy. See Red Ink List.

### Alfalfa

**Grimm**—We are offering true Dakota-grown stock of this variety. We use the greatest care to provide our customers with genuine Grimm. Per lb., 60c; 3 lbs., \$1.75, postpaid. See Farm Seed List.

**South Dakota No. 12**—A select strain of common Alfalfa. Our seed is South Dakota grown and very hardy. Per lb., 50c; 3 lbs. for \$1.45, postpaid. See Red Ink List.

### Sweet Clover

**White Biennial (Melilotus Alba, or Bokhara)**—The white-flowered variety. Per lb., 30c; 3 lbs., 75c. See Red Ink List.

**Yellow Biennial (Melilotus Officinalis)**—Very similar to the white-flowered. Not so rank and coarse. Lb., 30c; 3 lbs., 75c. See Red Ink List.

**Hubam, Annual Sweet Clover**—This is the annual white-flowered Sweet Clover. Price, 50c per lb.; 3 lbs., \$1.40, postpaid.

### Grass Seed

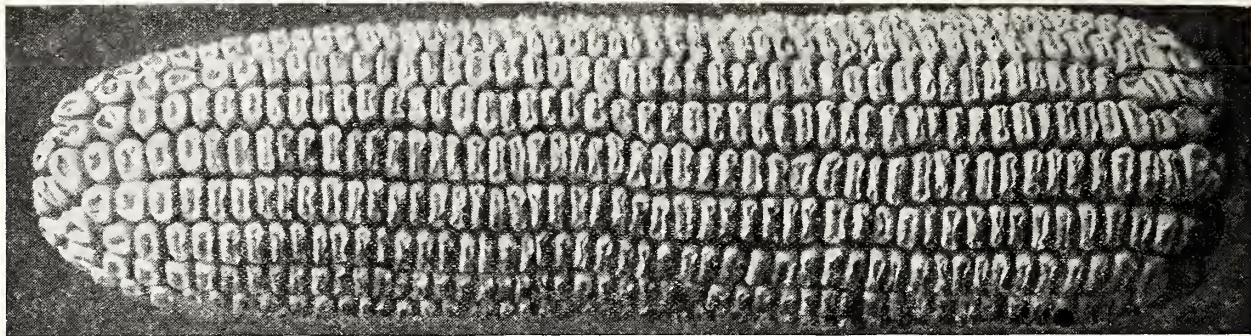
**Timothy**—Is the foundation grass for meadow and pastures. Per lb., 25c; 3 lbs., 50c, postpaid. See Red Ink List.

**Iowa Shield Kentucky Blue Grass**—It thrives in all parts of the United States. Postpaid, per lb., 55c; 3 lbs., \$1.50. See Farm Seed Price List.

**Orchard Grass**—Thrives better in shaded situations than other grasses. Per lb., 40c; 3 lbs., \$1.00, postpaid. See Farm Seed Price List.

**Perennial Rye Grass**—Also known as English Rye Grass. Lb., 40c; 3 lbs., \$1.00, postpaid. See Farm Seed Price List.





IOWA GOLD MINE CORN

## Seed Corn

All our seed corn has been grown right here in Polk County. It has been harvested before frost and carefully cured to protect its vitality. All the harvesting and preparation of our seed corn has been supervised by men who have had several years of experience in the production of seed corn. This means that the seed corn you buy from us will produce a much better return than poorly harvested corn grown from crib-run seed. The varieties we offer are leaders throughout the Corn Belt.

**Iowa Gold Mine**—This wonderful yellow variety was one of the first we originated. Extremely deep grain, with small cob. Matures early, making an excellent feeding corn. A good yielder. Prices: Not prepaid—7 lbs., 90c; peck, \$1.50; bushel, \$5.00; 10 bushels, \$47.50.

**Iowa Silver Mine**—This large white variety was introduced by us years ago. It is the standard white kind, and will produce well on poor soil. Matures in 100 days in this section. Prices: Not prepaid—7 lbs., 90c; peck, \$1.50; bushel, \$5.00; 10 bushels, \$47.50.

**Krug Yellow Victor**—This wonderful yellow corn has made good throughout the Corn Belt. It is an early maturing, high yielding type that stands at the head of the list of pure-bred varieties. Prices: Not prepaid—7 lbs., 90c; peck, \$1.50; bushel, \$5.00; 10 bushels, \$47.50.

**Pride of the North**—An extra early yellow variety originated near the Minnesota line. The ears are 7 to 8 inches long with small cob. Very uniform and matures in this section when planted in June. It is suitable for late planting when you have been unable to plant the larger varieties at the proper time. Prices: 7 lbs., 90c; peck, \$1.50; bushel, \$5.00; 10 bushels, \$47.50.

**Longfellow Flint**—The best yellow variety of flint corn. Ready to feed nearly a month ahead of the Dent varieties. A good yielder that makes excellent live stock feed. Prices: Not prepaid—7 pounds, 90c; peck, \$1.50; bushel, \$5.00; 10 bushels, \$47.50.

**Copper Cross Corn**—This is the pioneer of the crossbred corns. It has given very satisfactory results for five seasons. An excellent high yielder for the central and north central sections of the state. Prices: Lb., 50c, postpaid. Not prepaid, 7 lbs., \$1.50; peck, \$2.75; bushel, \$8.00.

**Hi-Bred Corn**—This yellow cross-bred corn has been produced by the Hi-Bred Corn Co. and, by special arrangement with them, we are enabled to offer it to our customers. Ask for booklet telling more about this wonderful new corn. Prices: Pkt., 10c; lb., 50c, postpaid. Not prepaid, 7 lbs., \$1.75; peck, \$3.00; bushel, \$11.00.

## Seed Oats

**Iogold**—This wonderful new variety is the latest introduction by Prof. L. C. Burnett at Ames College. Although yellow in color its high yielding quality has placed it at the head of the list. Per bu., \$1.40; 10 bu. or more at \$1.30.

**The Iowar Oat**—Professor Burnett's introduction at Ames College. The professor says it is three days later, three inches taller, and yields three bushels per acre more than White Kherson (Iowa 103). Per bu., \$1.00; 10 bu. or more at 90c.

**White Kherson (Iowa 103)**—A very early white variety. It is without doubt the most popular variety in our state. Per bu., \$1.00; 10 bu. or more at 90c.

**The Richland Oat (Iowa 105)**—The best variety for rich, strong land. The grains are medium sized, light yellow in color, plump and heavy. Per bu., \$1.00; 10 bu. or more at 90c.

## Seed Wheat

**Marquis**—We have found it the best beardless variety for Iowa planters. Grows stiff, strong straw of medium height, has round dark red kernels and matures early. Popular because free from beards. Per lb., 25c; 3 lbs., 50c, postpaid. Per bu., \$2.00. See Red Ink List.

**Early Java**—The early bearded sort that is so prolific and gives best returns in the Corn Belt. Per bu., \$2.00. See Red Ink List.

## Seed Barley

**Oderbrucker**—Improved strain of standard six-row barley. It is an early variety, very strong, stiff straw, stands up and stools well. Per lb., 25c; 3 lbs., 60c, postpaid. See Red Ink List for quantity price.

**Velvet**—Barley has always been very valuable for feeding and this new smooth bearded variety does away with all objections to growing barley. It yields better than the bearded sorts. See Red Ink List.

## Seed Rye

**Mammoth Spring Rye**—Does not stool like winter rye. Not less than two bushels to the acre should be sown. Per bu., \$2.50. See Red Ink List for quantity price.

**Monster Winter**—It is usually sown in the fall. If sown early in the spring, it makes an early and abundant pasture, but makes no grain crop. Per bu., \$2.25. See Red Ink List for quantity price.





## Buckwheat

Buckwheat is a valuable crop. Generally sown in July and fills up vacant plots at a time when all other planting is past. Use one-half bushel seed per acre.

**Japanese**—Is more productive than any other and succeeds well farther north. Lb., 25c; 3 lbs., 60c, postpaid. See Red Ink List for quantity price.

## Seed Flax

Our seed is thoroughly re-cleaned. Per lb., 15c; 8 lbs., \$1.00, not prepaid. See Red Ink List for quantity price.

## Broom Corn

**Evergreen**—The brush is noted for fine quality, good length and handsome appearance. Lb., 25c; 3 lbs., 65c, postpaid. See Red Ink List.

## Sunflower

The very best poultry feed for winter.

**Mammoth Russian**—Extremely large sunflower. Large pkt., 5c; lb., 25c; 3 lbs., 50c, postpaid. By freight or express, not prepaid, 10 lbs., \$1.50; bu., (25 lbs.), \$3.50.

## White Canada Field Peas

Their value is for early hay. Sow early as the ground can be worked, one bushel of peas to two bushels of oats per acre. Cut when oats are in milk. Lb., 25c; 3 lbs., 60c, postpaid. See Red Ink List for quantity price.

## Cow Peas

**Cow Peas**—We can supply the Whippoorwill variety. Per lb., 25c; 3 lbs., 60c, by mail postpaid. See Red Ink List for quantity price.

## Dwarf Essex Rape

A very popular and useful green forage crop. Fine for quick pasture for hogs, sheep or chickens. Pkt., 5c; lb., 25c; 3 lbs., 60c, postpaid. Not prepaid, 10 lbs., \$1.50; 25 lbs., \$3.00. See Red Ink List for quantity price.

## Sand or Winter Vetch

Should be seeded in the fall. Makes fine pasture in the spring. Also used for hay. Gathers nitrogen like clover. Pkt., 10c; lb., 40c; 3 lbs., \$1.00, postpaid.

## Sudan Grass

Sudan has made a place for itself as a forage and hay crop. Sow 8 to 10 pounds drilled or 15 to 20 broadcast per acre. Will make two cuttings for hay if sown early or one good crop of hay, and pasture afterwards until frost. Lb., 25c; 3 lbs., 60c, postpaid. See Red Ink List for quantity price.

## Early Amber Cane

The best sorghum cane, recommended for northern planters as it matures early. Use only 5 pounds seed per acre. Per lb., 25c; 3 lbs., 60c, postpaid. Not prepaid, 10 lbs., \$1.25; 25 lbs., \$2.50; 100 lbs., \$8.00.

## Early Orange Cane

It is a few days later to mature than the Amber. The syrup is somewhat lighter than that made from the Amber variety. Per lb., 25c; 3 lbs., 60c, postpaid. Not prepaid, 10 lbs., \$1.25; 25 lbs., \$2.50; 100 lbs., \$8.00.



SUDAN GRASS

## Cane for Fodder or Silage

It is valuable as green forage, as hay or fodder, and as silage. It is wonderfully productive. See Red Ink List.

## Kaffir Corn

Grown here principally as a poultry feed, for which purpose it is excellent. Also has some value for forage. Price, per lb., 25c; 3 lbs., 50c, postpaid. See Red Ink List.

## Feterita

Similar to Kaffir Corn in general habit. It matures earlier than Kaffir and the grains are somewhat larger and softer. Per

lb., 25c; 3 lbs., 50c, postpaid. See Red Ink List for quantity price.

## Milo Maize

Belongs to the same family as Kaffir Corn. Grain is light red color. Per lb., 25c; 3 lbs., 50c, postpaid. See Red Ink List for quantity price.

## Soy Beans

Soy beans make a wonderful high protein forage and the mature beans make wonderful cow and hog feed when ground. We list the best varieties for this section.

**Manchu**—The most valuable and most popular of all soy beans. Prices: Lb., 25c; 3 lbs., 60c, postpaid. See Red Ink List.

**Dunfield**—A new variety, grows taller than the Manchu. Beans bright yellow in color. Matures about the same as Manchu but yields more. Prices: Lb., 25c; 3 lbs., 60c, postpaid. See Red Ink List.

## Millets

Nothing like millet to make up shortage in hay. Can be sown in the middle or end of July and makes a valuable crop. Sow 50 pounds per acre for hay.

**Iowa Shield German Millet**—This is an extra fancy grade of the true Golden Millet. Per lb., 25c; 3 lbs., 60c, postpaid. See Red Ink List for quantity price.

**Siberian Millet**—Frequently called Red Millet. Lb., 20c; 3 lbs., 50c, postpaid. See Red Ink List for quantity price.

**Manitoba Millet**—Sometimes called Hog Millet. Much used for poultry feed, as it is heavy and plump. Lb., 20c; 3 lbs., 50c, postpaid. See Red Ink List.

## Grass Seed

**Red Top**—Very hardy perennial. Solid seed. Per lb., 40c; 3 lbs., \$1.00, postpaid. See Farm Seed Price List.

**Bermuda Grass**—Withstands heat and drouth wonderfully. It runs over the ground, forming a dense turf. Per lb., 75c; 3 lbs., \$2.00, postpaid.

## Permanent Grass Mixtures

These mixtures we make up to suit the various purposes and conditions. Nothing but good, new seed of high germination is used. The proportions are based on State Experiment Station experience. Made up for the following uses:

Upland Meadow, Lowland Meadow, Upland Pasture, Lowland Pasture, Woodland Pasture. See Red Ink List for prices.



SOY BEAN PLANT



# FLOWER SEEDS

The decorative value of flowers around our homes cannot be overestimated. You should plant them liberally. Last year we added a large number of new varieties of flower seeds to our list. The result was so gratifying that we have further improved the group of both annual and perennial flowers.

To avoid mistakes in filling your order we have listed the flower seeds by number. This will simplify ordering because you need to use only the number on your order. Annual varieties of flowers are marked ⊙. Perennials are marked ★. Climbers are marked †. Prices quoted on flower seeds include postage.

## Asters ⊙

**Double California Giant**—A new and wonderfully large aster. Exceptionally satisfactory.

500 White 502 Finest Mixed 504 Dark Purple  
501 Light Blue 503 Deep Rose

Each of the above: Pkt., 15c; ¼ oz., \$2.00.

**Early Wonder**—The best extra early variety. Flowers are of good size, quite double and stems straight and stiff.

510 Carmine 512 Light Blue  
Rose 513 Finest  
511 Lavender Mixed

Each of the above: Pkt., 10c; ¼ oz., \$1.25.

**Queen of the Market**—These well-known, early flowering asters are of a branching habit, about 18 inches high. They are one of the most useful for early market purposes.

520 Crimson 524 Purple  
521 Dark Blue 525 White  
522 Pink 526 Finest  
523 Lavender Mixed

Each of the above: Pkt., 5c; ¼ oz., 50c.

**Single Flowering**—Produces single, daisy like flowers. Different from the other types of asters.

540 Deep Blue 543 White  
541 Deep Rose 544 Finest  
542 Lavender Mixed

Each of the above: Pkt., 10c; ¼ oz., 50c.

**Royal**—This is a recently developed type of large-flowering asters that will be appre-

ciated by everyone. Petals are broad, curved or shell-shaped, giving an exquisite effect.

550 Lavender 552 Deep Rose 554 White  
551 Purple 553 Shell Pink 555 Finest Mixed

Each of the above: Pkt., 10c; ¼ oz., 75c.

**Improved Crego**—Plants robust, about two feet high. Flowers large, double and well formed, of the Comet type, making a fine variety for all purposes.

560 Azure Blue 562 Deep Rose 564 Shell Pink  
561 Lavender 563 Purple 565 Finest Mixed

Each of the above: Pkt., 10c; ¼ oz., 75c.

**Ostrich Feather**—These are the finest of the Ostrich Feather class, having long, full, fluffy flowers. Plants grow about two feet high and are very robust.

570 Dark Blue 572 Shell Pink 574 Finest Mixed  
571 Deep Rose 573 Sky Blue

Each of the above: Pkt., 10c; ¼ oz., 75c.

**Improved Branching**—This is the most popular florists' strain. It is also a fine type for outdoor growing.

580 Crimson 584 White  
581 Pink 585 Finest  
582 Lavender Mixed  
583 Purple

Each of the above: Pkt., 10c; ¼ oz., 50c.

**Astermums**—Plants grow erect, two to three feet high. Flowers large, double, well-formed, of the Comet class. A little earlier than the Crego.

590 Lavender 593 Finest  
591 White Mixed  
592 Rose Pink

Each of the above: Pkt., 10c; ¼ oz., 75c.

**600 Heart of France**—This is the deepest and most brilliant red of any of the asters. Pkt., 10c; ¼ oz., 90c.

**610 Banner Blue**—The nearest to a pure blue in asters. Pkt., 10c; ¼ oz., 90c.

**620 Snowdrift**—A large, full, double white of sturdy growth. Very free flowering. Pkt., 10c; ¼ oz., \$1.25.

**630 Banner Aster Collection**—One packet each of Heart of France, Banner Blue and Snowdrift for 25c.



ROYAL ASTER





AQUILEGIA

**Acroclinium** ☉

A beautiful everlasting. Very delicate flowers.

- 640 Double Red      641 Double Mixed  
Each of the above: Pkt., 5c; ¼ oz., 30c; oz., 90c.

**Ageratum** ☉

650 Blue Perfection—Flowers large and of deep blue.

- 651 Albiflorum—Like Blue Perfection, only flowers are white.

Each of the above: Pkt., 10c; ¼ oz., 25c.

**Alyssum** ☉

660 Sweet—Has little white flowers, useful for small bouquets. Makes pretty edging. Pkt., 5c; ¼ oz., 15c; oz., 40c.

- 661 Little Gem—Very dwarf and remarkably uniform. Only 3 or 4 inches high. Pkt., 5c; ¼ oz., 20c; oz., 60c.

662 Lilac Queen—A new color in Alyssum. Becomes more pronounced the latter part of summer. Pkt., 10c; ¼ oz., 25c; oz., 75c.

- 663 Mixed—Mixture of above colors. Pkt., 5c; ¼ oz., 20c; oz., 50c.

**Amaranthus** ☉

Hardy annuals. Sow early in spring.

670 Purple Mantle—Has large purple leaves, which do not fade in hot weather. The large fronds of reddish-purple flowers almost cover the plants. Pkt., 10c; oz., 40c.

- 671 Tricolor—Well known as "Joseph's Coat." Pkt., 10c; ¼ oz., 35c; oz., \$1.00.

672 Caudatus (Love Lies Bleeding)—Produces long, drooping chains of brilliant-colored flowers. Pkt., 10c; ¼ oz., 20c; oz., 50c.

- 673 Mixed Varieties—Pkt., 5c; ¼ oz., 20c; oz., 40c.

**Ambrosia—Perfume Plant** ☉

680 Long spiral stem with abundant buds and blossoms. Very fragrant. Pkt., 10c; ¼ oz., 25c.

**Ammobium** ☉

690 Alatum Grandiflora—A pretty everlasting white flower. Pkt., 5c; ¼ oz., 25c; oz., 75c.

**Antirrhinum** ☉

**Tall Giant Flowered**—This is the newest creation in Giant Antirrhinum and is a marked advance over the older tall types in size and brilliancy of color.

- 700 Bunch of Lilacs—Lilac purple.  
701 Canary Bird—Yellow with gold center.  
702 Copper King—Velvety copper-scarlet.  
703 Purple King—Deep, glowing purple.  
704 Snowflake—Pure white with yellow tube.  
705 The Rose—Rose pink.  
706 Finest Mixed.

Each of the above: Pkt., 15c; ¼ oz., \$1.25.

**Medium Giant Flowered**—These are the giant flowered type, but they do not grow so tall. Fine for bedding.

- 710 Fascination—Pearly pink.  
711 Gloria—A large, deep rose.  
712 Golden Queen—A clear yellow.  
713 Grenadier—Orange-scarlet, white tube.  
714 Purity—Pure white.  
715 Finest Mixed.

Each of the above: Pkt., 10c; ¼ oz., 75c.

**Aguilegia** ★

(Columbine)

Free flowering and deservedly popular hardy plants. Bloom profusely through spring into early summer. Hardy perennial.

720 Long Spurred Hybrids—The spurs on these are very long. Many colors, all showy. Pkt., 25c; ¼ oz., \$2.00.

721 Chrysantha—The beautiful, large-flowered, yellow Columbine. Pkt., 10c; ¼ oz., \$2.00.

722 Coreulea—The true Rocky Mountain blue Columbine. Pkt., 10c; ¼ oz., \$2.50.

723 Double Varieties Mixed—A fine assortment. Pkt., 10c; ¼ oz., 50c; oz., \$1.50.

**Arctotis Grandis** ☉

730 Remarkably handsome annual. Its flowers, borne on long stems, are large and showy, with a yellow zone at base. Back of petals lilac-blue. Pkt., 10c; ¼ oz., 25c; oz., 90c.

**Balloon Vine** ☉ +

740 A pretty, rapid-growing climber. Flowers white, followed by balloon-like seed pods. Pkt., 10c; oz., 30c.

**Balsam** ☉

750 Peerless Mixed—A mixture of best strains. Flowers are double and all colors. Pkt., 10c; oz., 60c.

**Scarlet Runner Bean** ☉

760 A valuable climbing bean, having bright scarlet flowers and pods. Very showy as a climber; also valuable for table use. Pkt., 10c; ¼ lb., 20c; lb., 60c.

**Brachycome** ☉

770 Also called "Swan River Daisy." Covered during summer with a profusion of flowers. Blue and white. Pkt., 5c; ¼ oz., 50c.

**Browallia** ☉

780 Grandiflora—Form dense little bushes, covered with abundance of delightful sky-blue flowers. Pkt., 10c; ¼ oz., 75c.

**Bryanopsis** ☉ +

790 A splendid climber with pretty cherry-like green fruits which change to bright scarlet, striped with white. Pkt., 10c; ¼ oz., 50c.

**Burning Bush** ☉

800 One of the best annual border or hedge plants, so symmetrical in form. Turn vivid red in the fall. Easily grown. Pkt., 5c; ¼ oz., 20c; oz., 50c.

**Butterfly Flower** ☉

810 This large-flowering variety of Schizanthus challenges the rare orchids in beauty. Easily grown. Pkt., 5c; ¼ oz., 50c.



**Cacalia** ○

820 *Coccinea* — Sometimes called Tassel Flower or Flora's Paint Brush. Pkt., 5c; ¼ oz., 50c.

**Calendula** ○

An annual of the easiest culture.

830 *Orange King*—Compact double flowers of bright orange color. Very beautiful. Pkt., 10c; ¼ oz., 25c; oz., 75c.

831 *Fine Mixed*—Pkt., 5c; ¼ oz., 25c; oz., 50c.

**Calliopsis** ○

Very showy. Two feet high. A wonderfully successful annual.

840 *Golden Wave*  
841 *Crimson King*  
842 *Golden King*  
843 *Finest Mixed*  
Each of the above: Pkt., 5c; ¼ oz., 15c; oz., 50c.

**Campanula**

850 *Cup and Saucer* ★—A beautiful variety, striking form of cup and saucer, hence its name. Mixed colors. Pkt., 10c; ¼ oz., 80c.

851 *Single Mixed* ○—A choice mixture of single sorts. Pkt., 5c; ¼ oz., 40c.

852 *Double Mixed* ○—Choice seed from double varieties. Pkt., 10c; ¼ oz., \$1.25.

**Canary Bird Flowers** ○ +

860 A climber of delicate, finely cut foliage and curious bright yellow flowers. Pkt., 10c; ¼ oz., 25c; oz., 75c.

**Candytuft** ○

Easy to cultivate and blooms profusely. Hardy annual one foot high.

870 *Giant Empress*—Covered with pure white, fragrant flowers. Fine edging. Pkt., 10c; ¼ oz., 20c; oz., 60c.

871 *Crimson*—Companion to *Giant Empress*, and will be appreciated because of its unusual color. Pkt., 10c; ¼ oz., 20c; oz., 60c.

872 *Best Mixed*—Mixture of all varieties and colors. Pkt., 5c; ¼ oz., 15c; oz., 50c.

**Canna** ○

880 *Fancy Large Flowered*—Very large flowering, dwarf varieties 3½ feet tall. Mixture of finest flowering sorts. Pkt., 10c; ¼ oz., 40c; oz., \$1.25.

**Canterbury Bells** ★

890 *Campanula Medium*—A very pretty perennial, popular and well known. Double and single, mixed colors. Pkt., 10c; ¼ oz., 25c; oz., 75c.

**Cardinal Climber** ○ +

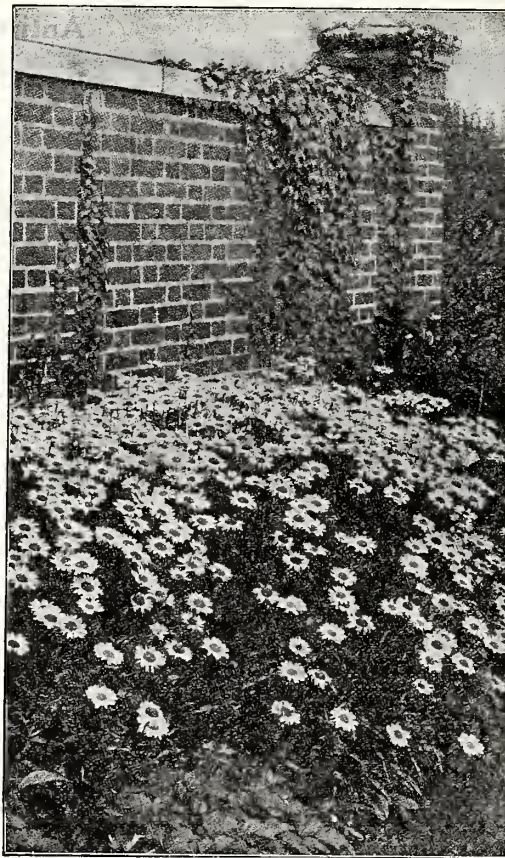
920 A hybrid of *Cypress Vine* and *Morning Glory*. Bright cardinal flowers. Pkt., 10c; ¼ oz., \$1.25.

**Carnation** ○

Finest of the *Dianthus* or *Pink* family. Very fragrant. Flowers double.

900 *Dark Red*      902 *White*      904 *Finest Mixed*  
901 *Scarlet*      903 *Yellow*

Each of the above: Pkt., 15c; ¼ oz., \$1.25.



(See description on page 19.)

**SHASTA DAISIES**

ful blossoms, deliciously fragrant.

947 *Red*      947B *Purple*      947D *Finest Mixed*  
947A *Deep*      947C *White*

Lavender

Each of the above: Pkt., 10c; ¼ oz., 40c; oz., \$1.25.

**Chinese Woolflower** ○

*Celosia Childsii*—Produces numerous fluffy heads, resembling wool. If flowers are dried in a dark place they will retain their rich colors all winter.

950 *Dark Pink*      952 *White*      954 *Crimson*  
951 *Yellow*      953 *Scarlet*      955 *Finest Mixed*

Each of the above: Pkt., 10c; ¼ oz., 90c.

**Clarkia** ○

960 A very pretty and desirable hardy annual. Flowers are white, red, purple, etc., borne in profusion during summer. Single and double mixed. Pkt., 5c; ¼ oz., 50c.

**Cobaea Scandens** ○ +

970 A magnificent climber of rapid growth and beautiful blue flowers. Pkt., 10c; ¼ oz., 50c.

**Cockscomb** ○

980 *Giant Empress*—The *Empress* is the finest and most gorgeous variety. Purple combs and dark brown foliage. Pkt., 10c; ¼ oz., 75c.

981 *All Varieties Mixed*—Pkt., 10c; ¼ oz., 65c.

**Coreopsis** ★

990 *Lanceolata*—Hardy perennial form of *Calliopsis*. Bright golden yellow. Blooms all summer. Pkt., 10c; ¼ oz., 25c; oz., 75c.

910 *Marguerite*—Plants are of vigorous, dwarf, erect growth. Markings and shading wonderful. Colors mixed. Pkt., 10c; ¼ oz., 75c.

**Celosia** ○

930 *Spicata*—A wonderful variety about 2½ feet in height and producing spikes of flowers of a bright rose color, when opening changing to silvery white. Pkt., 10c; ¼ oz., 75c.

931 *Ostrich Feather*—Has beautifully curled plumes of various colors. Pkt., 10c; ¼ oz., 75c.

**Centaurea** ○

*Cyanus Double* (*Bachelor's Button* or *Cornflower*)—An attractive flower for naturalizing purposes. Reseeds itself readily.

940 *Blue*      943 *Brick Red*  
941 *Pink*      944 *Finest*  
942 *White*      Mixed

Each of the above: Pkt., 5c; ¼ oz., 20c; oz., 60c.

945 *Gymnocarpa* (*Dusty Miller*)—The foliage of this variety is finely cut and silvery. Pkt., 10c; ¼ oz., 40c; oz., \$1.20.

946 *Americana*—The giant of the *Centaureas*. Flowers are four inches across and bloom a long time. Pkt., 10c; ¼ oz., 40c; oz., \$1.20.

*Imperialis*—Improved Sweet Sultan; long stemmed, graceful blossoms, deliciously fragrant.





ESCHSCHOLTZIA (California Poppy)

**Cosmos** ☉

**Early Dawn**—Is early, coming into bloom about two months from time of sowing and continuing until frost.

1001 White      1002 Crimson      1003 Finest Mixed  
1001A Pink

Each of the above: Pkt., 10c; ¼ oz., 20c; oz., 60c.

**Early Double Crested**—A new early strain of the wonderful Double Crested Cosmos. We recommend them highly.

1010 Pink Beauty      1012 White Queen  
1011 Crimson King      1013 Finest Mixed

Each of the above: Pkt., 15c; ¼ oz., \$2.00.

**Cynoglossum** ☉

(Chinese Forget-Me-Not)

The flowers are of a beautiful shade of blue. It grows on tall, graceful branches from 18 to 20 inches in height. Cut the flowers as they bloom and it will flower continually throughout the summer. It is ideal for bedding as well as for cut flowers. Pkt., 10c; ¼ oz., 50c.

**Cypress Vine** ☉ +

1030 A beautiful, rapid climber with delicate dark green foliage and an abundance of star-shaped scarlet and white blossoms. Mixed colors. Pkt., 5c; oz., 50c.

**Dahlia** ☉

The Dahlia is well known, but few are aware that if the seed is sown early in the spring they will bloom the first year.

1040 Double Mixed—Pkt., 10c; ¼ oz., \$1.50.

**Daisy** ☉

1050 Best Double Mixed—Low-growing sorts for massed beds or borders. Known as English Daisies. Pkt., 10c; ¼ oz., \$1.00.

1051 African Golden—This showy annual comes from South Africa. Blossoms are a peculiar, rich, glossy color. Pkt., 10c; ¼ oz., 75c.

**Shasta Daisy** ★

1060 Alaska—The best of the Shasta Daisies. Pkt., 10c; ¼ oz., \$1.25.

**Delphinium** ★

(Perennial Larkspur)

The Delphiniums are deservedly among the most popular perennials.

1070 Belladonna—Light blue, hardy and fine. Pkt., 20c; ¼ oz., \$2.00.

1071 Bellemosum—Dark blue. Better than old Formosum. Pkt., 25c; ¼ oz., \$2.50.

1072 Butterfly—A distinct variety, growing about 18 inches high, with fine, feathery foliage. Large blossoms of intense gentian blue. Pkt., 10c; ¼ oz., 80c.

1073 Gold Medal Hybrids—The finest strain with immense spikes of large flowers. Many colors. Pkt., 25c; ¼ oz., \$1.20.

**Dianthus** ☉

Dianthus or Chinese Pinks furnish abundance of gay and pretty flowers until frozen.

1080 Oriental or Japanese Mixed—Markings and colors are rich and brilliant. Striped, blotched and banded. Pkt., 10c; ¼ oz., 50c.

1081 Fireball—Very beautiful. Flowers are perfectly double and color a rich, velvety blood red. Pkt., 10c; ¼ oz., 40c.

1082 Snowball—Fit companion to above. Pkt., 10c; ¼ oz., 40c.

1083 Double Diadem Pink—A superb, large double flower. Magnificent in color. Pkt., 10c; ¼ oz., 40c.

**Dolichos** ☉ +

(Hyacinth Bean)

A rapid-growing annual climber, flowering freely in clusters, followed by ornamental pods.

1090 Daylight—Pure white. Pkt., 10c; ¼ lb., 60c.

1091 Darkness—Both flowers and seed pods are a purplish red. Pkt., 10c; ¼ oz., 60c.

1092 Mixed Colors—Pkt., 5c; ¼ lb., 45c.

**Electric Light Plant** ☉

1100 A sturdy, bushy plant of about 4 feet, covered constantly with large spikes of flowers, which are pure white at base and range from rose to bright red at top. Showy and ornamental. Pkt., 10c; ¼ oz., 25c; oz., 75c.

**Eschscholtzia** ☉

(California Poppy)

An excellent low-growing bedding plant. Very brilliant and showy. Easy to grow.

1110 Chrome Queen—Amber yellow.

1111 Dainty Queen—Pink and yellow.

1112 Mandarin—Orange and scarlet.

1113 Vesuvius—Red.

1114 Finest Single Mixed.

1115 Finest Double Mixed (Yellow and White Only).

Each of the above, Pkt., 10c; ¼ oz., 25c; oz., 75c.

**Euphorbia** ☉

1120 Variegated—(Snow on the Mountain.) Foliage ornamental, veined and margined white. Pkt., 5c; ¼ oz., 40c.

**Four o'Clock** ☉

(Mirabilis)

Marvel of Peru—A most brilliant, showy annual. Much used for ornamental hedges.

1130 Mixed Colors and Varieties—A fine assortment. Pkt., 5c; oz., 25c; ¼ lb., 75c.

**Foxglove** ★

A showy perennial, easily grown. Always pleases.

1140 White      1142 Purple

1141 Rose      1143 Finest Mixed

Each of the above, Pkt., 10c; ¼ oz., 50c.

**Gailardia (Blanket Flower)** ★

Beautiful and showy. Plants 1 and 2 feet high. Red and yellow colors dominate.

1150 Josephus—Large red blossoms edged with yellow.

1151 Crimson and Orange.

1152 Finest Single Mixed.

1153 Finest Double Mixed.

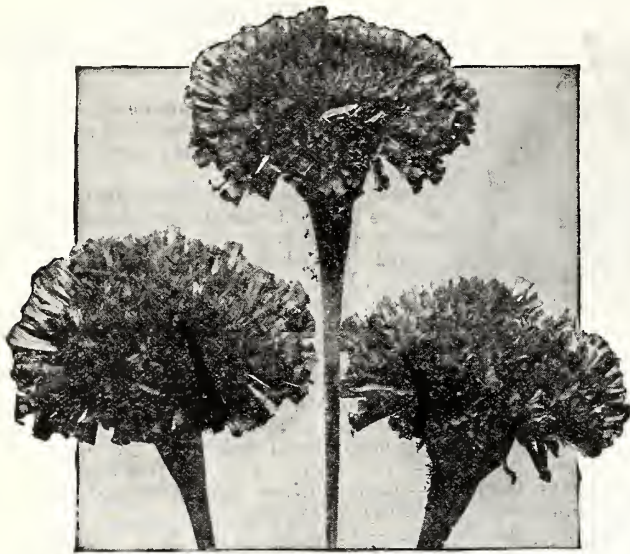
Each of the above, Pkt., 10c; ¼ oz., 20c; oz., 60c.

**Geranium** ☉

1160 Good Venture—It is fun to watch the little seedlings grow into large geraniums. Pkt. (about 40 seeds), 15c; ¼ oz., \$1.25.

**Globe Amaranth** ☉

1170 Mixed Colors—Popularly known as "Batchelor Buttons." Many colors. Pkt., 5c; ¼ oz., 25c; oz., 75c.



PRIDE OF THE GARDEN MARIGOLD

### Godetia ☉

A handsome, showy annual deserving more extensive cultivation. About 1 foot high, of dwarf, compact growth.

- |            |                   |
|------------|-------------------|
| 1180 White | 1182 Pink         |
| 1181 Red   | 1183 Finest Mixed |

Each of the above, Pkt., 10c; ¼ oz., 40c.

### Gourds—Ornamental Mixed ☉+

1190 A mixture of the odd-shaped and fancy colored sorts. Pkt., 5c; oz., 25c.

### Grass Pinks ★

1200 Double Clove Pinks—A fine type of the pretty clove-scented flowers, so much loved by our grandmothers. Colors range from pure white to dark red. Pkt., 10c; ¼ oz., 35c.

### Gypsophila ☉

Graceful plants of light fairy-like growth. Fine for combining with other flowers for bouquets.

- |                      |                    |
|----------------------|--------------------|
| 1210 Elegans White   | 1212 Elegans Pink  |
| 1211 Elegans Carmine | 1213 Elegans Mixed |

Each of the above, Pkt., 5c; ¼ oz., 20c; oz., 60c.

1124 Paniculata Alba ★—Single perennial. Pkt., 10c; ¼ oz., 25c; oz., 80c.

1215 Paniculata ★—White. Double perennial. Pkt., 25c.

### Helichrysum ☉

Very pretty and popular, bearing large double flowers of different shades and colors. Particularly useful in winter decoration.

- |             |                   |
|-------------|-------------------|
| 1220 Yellow | 1223 Scarlet      |
| 1221 White  | 1224 Violet       |
| 1222 Red    | 1225 Finest Mixed |

Each of the above, Pkt., 10c; ¼ oz., 25c; oz., 60c.

### Heliotrope ☉

1230 California Mammoth—A grand variety, producing immense flowers. Pkt., 10c.

### Hibiscus

1240 Mehan's Marvel Mallow ★—Produces wonderful flowers 8 to 10 inches in diameter. Colored from pure white to fiery red. Splendid for permanent planting. Pkt., 10c; ¼ oz., 40c; oz., \$1.00.

1241 Golden Bowl ☉—Enormous flowers, 5 to 6 inches across. Canary color with large, black center. Pkt., 10c.

### Hollyhocks

1250 Everblooming Annual ☉—Sown in the open ground in April, it blooms in August. Colors varied. Double, semi-double, single. Pkt., 10c; ¼ oz., 35c; oz., \$1.00.

Chater's Prize Double ★—Magnificent double flowers 3 to 4 inches across. Of the brightest colors. Flowers beautiful and perfect, massed completely around spikes.

- |              |                   |
|--------------|-------------------|
| 1251 White   | 1254 Rose         |
| 1252 Pink    | 1255 Maroon       |
| 1253 Crimson | 1256 Finest Mixed |

Each of the above, Pkt., 10c; ¼ oz., 75c.

### Ice Plant ☉

1260 A handsome and curious plant for hanging baskets, rockwork and vases. The leaves and stems appear as though covered with crystals. Pkt., 5c; ¼ oz., 30c.

### Job's Tears ☉

1270 Produces beautiful seeds, about one-fourth inch in diameter, which are used like beads in fancy work. Pkt., 5c; ¼ lb., 40c.

### Kudzu Vine ☉

(Jack and the Beanstalk)

1280 Hardy, very rapid-growing vine. Pkt., 10c; ¼ oz., 25c; oz., 75c.

### Larkspur ☉

Tall Double Stock Flowered—3 or 4 feet high. Wonderfully large and showy. Fine for cut flowers.

- |                    |                   |
|--------------------|-------------------|
| 1290 Blackish Blue | 1293 Rose         |
| 1291 Light Blue    | 1294 Violet       |
| 1292 Purple        | 1295 Finest Mixed |

Each of the above, Pkt., 10c; ¼ oz., 20c; oz., 75c.

1296 Emperor—Low growing. Fine for bedding work. Produces white flowers. Pkt., 10c; ¼ oz., 25c; oz., 75c.

### Linum

1300 Grandiflora Rubrum ☉ (Scarlet Flax)—A showy annual. Crimson scarlet flower. Pkt., 5c; ¼ oz., 15c; oz., 50c.

1301 Perennial ★—A beautiful, hardy perennial. Blooms constantly. Delicate blue flowers. Pkt., 10c; ¼ oz., 30c.

### Lobelia ☉

1310 Erinus—Handsome, trailing plant. Flowers blue. Fine in vases and hanging baskets. Pkt., 10c.

1311 Compacta—The upright growing variety. Pkt., 10c; ¼ oz., \$1.25.

### Marigold ☉

1315 Pride of the Garden—We have selected these until the choicest only are contained in this strain. Pkt., 5c; ¼ oz., 20c; oz., 60c.

1316 Orange Ball—A tall-growing, large, double-flowering variety; very satisfactory. Pkt., 5c; ¼ oz., 20c; oz., 60c.

1317 Lemon Ball—A companion of the Orange Ball only the color is a clear lemon yellow. Pkt., 5c; ¼ oz., 20c; oz., 60c.

### DWARF FRENCH DOUBLE

- |                                  |
|----------------------------------|
| 1320 Brown—Spotted yellow.       |
| 1321 Gold Striped.               |
| 1322 Golden Yellow—Brown margin. |
| 1323 Pigmy Golden Ball.          |

Each of the above, Pkt., 5c; ¼ oz., 20c; oz., 60c.

### DWARF FRENCH SINGLE

- |   |
|---|
| 1330 Diadem—Mahogany red, edged gold.         |
| 1331 Gold Star—Yellow, striped maroon.        |
| 1332 Legion of Honor (Little Brownie).        |
| 1333 Star of India—Crimson, striped yellow.   |
| 1334 Silver King—Pale yellow, maroon at base. |
- Each of the above, Pkt., 10c; ¼ oz., 20c; oz., 60c.



**Mignonette** ☉

1340 **Machet**—Distinct variety of great merit. Vigorous dwarf growth with large spikes of scented red flowers. Pkt., 5c; ¼ oz., 15c; oz., 50c.

1341 **Sweet Scented**—Mixed colors. Pkt., 5c; oz., 30c.

**Momordica** ☉

1350 Commonly known as Balsam Apple or Balsam Pear. Pkt., 10c; oz., 90c.

**Moonflower** ☉+

1360 **White**—One of the grandest summer climbers, covered nightly and dull days with beautiful flowers from 5 to 6 inches in diameter. Fragrant. Pkt. of 6 seeds, 10c; oz., 75c.

1361 **Blue**—A striking contrast to the true White Moonflower. Pkt., 10c; oz., 75c.

**Morning Glories** ☉+

1370 **Imperial Japanese**—Remarkable for the large size and exquisite colors of the flowers. Single. Pkt., 10c; oz., 40c.

1371 **Fringed Japanese**—Odd, yet attractive appearance. Similar in size and coloring to the Imperial strain. Pkt., 10c; oz., 50c.

1372 **Improved Climbing**—The regular Morning Glory. Pkt., 10c; ¼ oz., 75c.

1373 **Brazilian**—One of the most luxuriant plants ever grown. With immense leaves and flowers. Pkt., 10c; ¼ oz., 25c; oz., 90c.

**Myosotis** ☉

(Forget-Me-Not)

1380—**Victoria**—The best variety for pot culture. Of dwarf, globular habit. Beautiful sky-blue flowers. Pkt., 10c; ¼ oz., 50c.

**Nasturtiums** ☉**DWARF VARIETIES**

1390 **Aurora**—Deep chrome yellow, blotched and veined purplish carmine. Pkt., 10c; oz., 30c.

1391 **Beauty**—Scarlet-splashed canary yellow. A fine variety. Pkt., 10c; oz., 30c.

1392 **Chameleon**—Crimson, gold and bronze, bordered and flamed. Pkt., 10c; oz., 30c.

1393 **Empress of India**—Dark purplish leaves and brilliant scarlet flowers. Pkt., 10c; oz., 30c.

1394 **General Jacqueminot**—Named for the rose; flowers bright crimson scarlet. Pkt., 10c; oz., 30c.

1395 **King Theodore**—The "black" nasturtium; deep velvety crimson. Pkt., 10c; oz., 30c.

1396 **Ruby**—Bright and brilliant carmine color. Profuse bloomer. Pkt., 10c; oz., 25c.

1397 **Vesuvius**—Bright salmon pink, veined deep orange. Brightest shade in list. Pkt., 10c; oz., 30c.

1398 **Imperial Mixed**—A mixture of the best varieties. Pkt., 10c; oz., 20c; ¼ lb., 60c.

**TALL VARIETIES**

1400 **Firelight**—Brilliant cardinal red. Brightest and most attractive color. Pkt., 10c; oz., 30c.

1401 **Midnight**—Dark-brownish red; profuse bloomer. Fine in mixed beds. Pkt., 10c; oz., 30c.

1402 **Moonlight**—Pale straw or lemon yellow. A delicate soft shade. Pkt., 10c; oz., 25c.

1403 **Sunlight**—Rich brilliant yellow color. Crinkled flowers of immense size. Pkt., 10c; oz., 30c.

1404 **Twilight**—Lovely delicate flower of salmon rose or pink. Pkt., 10c; oz., 35c.



GIANT FANCY PETUNIA

1405 **Caprice**—Changing colors, often a dozen different shades on a plant. Pkt., 10c; oz., 35c.

1406 **Tall Varieties Mixed**—The best mixture of tall nasturtiums. Pkt., 10c; oz., 20c; ¼ lb., 60c.

1407 **Brilliance Nasturtium Collection**—1 pkt. each of the 8 Dwarf varieties for 50c. 1 pkt. each of the 6 Tall varieties for 40c. Both collections, 85c.

**Nicotiana** ☉

One of the easiest of the annuals to raise. Flowers open evenings. Highly perfumed.

1410 **White**

1411 **Finest Mixed**

Each of the above, Pkt., 10c; ¼ oz., 40c.

**Nigella** ☉

1420 **Mixed (Love in the Mist)**—A compact, free-flowering plant with finely cut foliage, curious-looking seed pods. Of easy culture. Blue and white mixed. Pkt., 10c; ¼ oz., 25c; oz., 60c.

1421 **Miss Jekyll**—A lovely variety, bearing on long stems large semi-double flowers of a lovely tender blue, nestling in fine feathery foliage. Pkt., 10c; ¼ oz., 60c.

**Pansies**

1430 **Pretioso**—A new strain. Contains the widest range of colors, most diversified markings, and velvety substance. Pkt., 10c; ¼ oz., \$2.00; oz., \$6.00.

1431 **American Giant**—This strain is of strong, robust luxuriant growth and produces immense flowers. Pkt., 15c; ¼ oz., \$3.00; oz., \$8.00.

1432 **Masterpiece**—Distinct in form of flowers, the border of every petal undulated and curled. Flowers are large. Pkt., 10c.

1433 **Giant Trimardeau**—Flowers of very large size. Each flower marked with three blotches or spots and stands well above foliage. Choice mixed colors. Pkt., 10c; ¼ oz., \$2.00; oz., \$6.00.

**Separate Colors**—We can furnish Giant Flowered Pansies in the following separate colors:

1434 **White**

1437 **Red**

1435 **Blue**

1438 **Black**

1436 **Yellow**

Each of the above, pkt., 10c; ¼ oz., \$2.00; oz., \$6.00.

**Pennistum** ☉

1440 Commonly called Purple Fountain Grass. Pkt., 10c.

**Pentstemon** ★

1450 **Finest Mixed**—Many spikes of Gloxinia-like flowers. Pkt., 10c; ¼ oz., \$1.90.

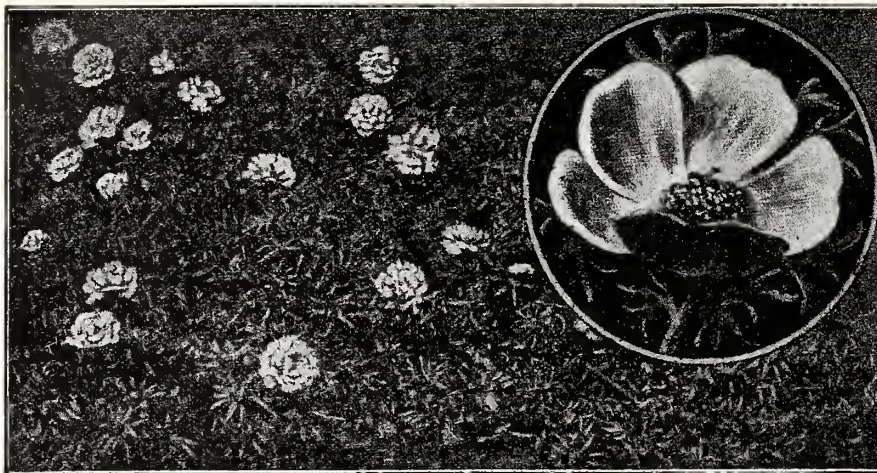
**Petunias** ☉

**Rosy Morn**—A beautiful new petunia of clear rosy pink. A lovely shade for solid beds. Splendid for window boxes. Pkt., 10c; ¼ oz., \$1.00.

**Giant Fancy**—The flowers are exquisitely ruffled or fringed, and of enormous size. Unlimited varieties of colors, linings, blotchings, and stripings. Pkt., 25c.

**Inimitable Mixed**—Large flowers with clear, bright colors. Pkt., 10c; ¼ oz., 60c; oz., \$2.00.





PLANT OF DOUBLE PORTULACA

FLOWER OF SINGLE PORTULACA

**PETUNIAS—(Continued)**

**Large Flowered**—Easy to grow. Very satisfactory. Fine for bedding.

- |            |                           |
|------------|---------------------------|
| 1460 White | 1463 Striped and blotched |
| 1461 Red   | 1464 Finest Mixed         |

1462 Violet, white throat

Each of the above, Pkt., 10c; ¼ oz., 60c.

**Dwarf Type**—Dwarf, neat, compact bushes covered with small flowers all summer long. Fine for edging and bedding.

- |            |                   |
|------------|-------------------|
| 1470 Rose  | 1473 Violet       |
| 1471 White | 1474 Finest Mixed |

1472 Striped and Blotched

Each of the above, Pkt., 10c; ¼ oz., \$1.00.

**Balcony Type**—Extra large flowering sorts especially recommended for window and porch boxes.

- |            |                   |
|------------|-------------------|
| 1480 Blue  | 1482 Scarlet      |
| 1481 White | 1483 Finest Mixed |

Each of the above, Pkt., 25c.

**Phlox Drummondii** ☉

A brilliant, almost dazzling show; continual bloom.

- |               |                   |
|---------------|-------------------|
| 1490 Crimson  | 1494 Violet       |
| 1491 Lilac    | 1495 White        |
| 1492 Primrose | 1496 Finest Mixed |
| 1493 Scarlet  |                   |

Each of the above, Pkt., 10c; ¼ oz., 40c.

**Poppies** ☉

**Double Carnation**—Splendid assortment of best double carnation-flowered sorts.

- |                    |                   |
|--------------------|-------------------|
| 1500 Cherry Red    | 1503 White        |
| 1501 Salmon Pink   | 1504 Finest Mixed |
| 1502 Vermilion Red |                   |

Each of the above, Pkt., 10c; ¼ oz., 40c.

**Double Peony Flowered**—Double ball-shaped flowers of gigantic size.

- |                     |                            |
|---------------------|----------------------------|
| 1510 Cardinal Red   | 1513 Red and White Striped |
| 1511 Brilliant Rose | 1514 White                 |
| 1512 Light Lilac    | 1515 Finest Mixed          |

1516 Double Shirley—It is a true Shirley or satin poppy, but the flowers are a beautiful double. Pkt., 15c; ¼ oz., 40c; oz., \$1.25.

1517 American Flag—Flowers are extra large, very double, snow white, bordered with scarlet. Pkt., 5c; ¼ oz., 25c; oz., 75c.

1518 Santa Rosa Mixed—Improved Shirley Poppy. Pkt., 5c; ¼ oz., 25c; oz., 75c.

**Perennial Poppies** ★

1519 Oriental Hybrids—For brilliancy nothing equals these. Flowers enormous size. Pkt., 20c; ¼ oz., \$1.25.

1519a Iceland—Colors purest white to deepest orange scarlet. Pkt., 10c; ¼ oz., \$1.00.

**Portulaca** ☉

1520 Grandiflora Single Mixed—Also known as rose moss. Pkt., 5c; ¼ oz., 40c; oz., \$1.25.

1521 Double Mixed—The old favorite flowers are double as a rose, brilliant with many shades of color. Pkt., 10c; ¼ oz., \$1.25.

**Pyrethrum** ☉

1530 Golden Feather—Beautiful golden-leaved foliage plants. Pkt., 10c.

**Roseum Hybridum**—Painted daisies. Always please. Hardy perennial.

- |            |             |
|------------|-------------|
| 1531 Pink  | 1534 Flesh  |
| 1532 White | 1535 Finest |
| 1533 Red   | Mixed       |
- Each of the above, Pkt., 10c; ¼ oz., \$1.25.

**Rhodanthe** ☉

1540 Mixed Colors—For winter bouquets. Pkt., 10c; ¼ oz., 50c.

**Ricinus (Castor Oil Plant)** ☉

1550 Cambodgiensis—Has large, palm-like leaves of darkest reddish maroon. Grows 7 to 8 feet. Pkt., 5c; oz., 25c; ¼ lb., 75c.

1551 Zanzibarensis—Grows to a height of 12 to 14 feet, with leaves 2 to 4 feet across. Pkt., 10c; oz., 25c; ¼ lb., 75c.

1552 Fiery Plume—Has fiery red spikes of flowers and seed pods very striking. Grows 8 to 12 feet. Pkt., 10c; oz., 30c; ¼ lb., 90c.

1553 Mixed Varieties—Mixtures of the above and many other choice sorts. Pkt., 5c; oz., 20c; ¼ lb., 60c.

1554 Common—The common Castor Bean. Pkt., 5c; oz., 10c; lb., 50c. Ask for price in quantity.

**Salpiglossis** ☉

Plants about 18 inches high, bearing through the season large flowers. Very attractive and should be in every garden.

- |                       |                      |
|-----------------------|----------------------|
| 1560 Brown and Gold   | 1564 Black           |
| 1561 Crimson and gold | 1565 Violet and Gold |
| 1562 Dark Red         | 1566 Finest Mixed    |
| 1563 Yellow           |                      |

Each of the above, Pkt., 10c; ¼ oz., 75c.

**Salvia** ☉

1570 Splendens—Brilliant scarlet. Grows 2 to 3 feet. One of the most satisfactory bedding plants. Pkt., 10c; ¼ oz., \$1.25.

1571 Bonfire—Dwarf, compact, free-blooming sort. Much earlier than Splendens and brighter in color. Pkt., 10c; ¼ oz., \$1.50.

**Scabiosa (Mourning Bride)** ☉

Fine for cut flowers. We offer the large flowering double varieties.

- |                    |                   |
|--------------------|-------------------|
| 1580 Ageratum Blue | 1584 Yellow       |
| 1581 Black Purple  | 1585 White        |
| 1582 Cherry Red    | 1586 Finest Mixed |
| 1583 Fiery Scarlet |                   |

Each of the above, Pkt., 10c; ¼ oz., 25c; oz., 75c.

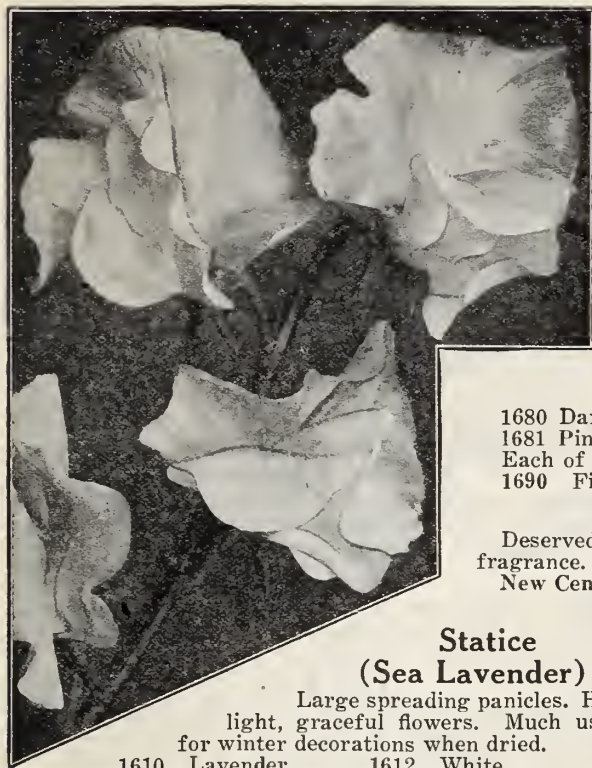
**Sensitive Plant** ☉

1590 Very pretty and curious plants, its leaves closing when touched. Pkt., 10c; ¼ oz., 30c.

**Smilax** ☉

1600 Specially valued for decorating and floral work all the year. Pkt., 10c; ¼ oz., 50c.





### Statice (Sea Lavender) ⊙

Large spreading panicles. Has light, graceful flowers. Much used for winter decorations when dried.

- 1610 Lavender      1612 White  
1611 Pink      1613 Finest Mixed

Each of the above: Pkt., 10c; ¼ oz., 25c; oz., 75c.

### Stocks Perpetual ⊙ (Cut and Come Again)

- 1620 Red      1623 White  
1621 Deep Rose      1624 Yellow  
1622 White Tinted Carmine      1625 Finest Mixed

Each of the above: Pkt., 10c; ¼ oz., \$1.25.

### Sunflower ⊙

1631 Globe of Gold—Double, about 4 feet high. Branching stems. In bloom it seems a mass of golden yellow. Pkt., 10c; oz., 25c.

1633 Rainbow Sunflower—Colors range from primrose to dark red. Beautifully mottled. Pkt., 10c.

### Spencer Sweet Peas ⊙+

1640 America—Ivory white with distinct stripes of bright crimson. Pkt., 10c; oz., 40c.

1641 Barbara—Salmon color without markings or shading. Pkt., 10c; oz., 40c.

1642 Elfreda Pearson—One of the largest flowers yet introduced. Color is pink, of a most lovely shade. Pkt., 10c; oz., 30c.

1643 Fiery Cross—The standard is bright orange scarlet, while the wings are rich orange cherry shade. Pkt., 10c; oz., 40c.

1644 Florence Morse—Very delicate rose color, shaded a little darker pink at edges. Pkt., 10c; oz., 30c.

1645 King Manoel—Deep, rich maroon. Pkt., 10c; oz., 35c.

1646 King White Spencer—The best white variety. Pkt., 10c; oz., 40c.

1647 Primrose Spencer—Finest quality of primrose shade. Pkt., 10c; oz., 30c.

1648 Masterpiece—Color is soft, pleasing lavender with wings of French grey. Pkt., 10c; oz., 30c.

1649 Royal Purple—The color is so rich that it will astonish with its beauty. Pkt., 10c; oz., 40c.

### SPENCER SWEET PEAS—(Continued)

1650 Sunproof Crimson—A splendid crimson color. Will stand summer heat without fading. Pkt., 10c; oz., 30c.

1651 Wedgewood Blue—We give this preference among the blue sorts. Pkt., 10c; oz., 40c.

1652 Spencer Mixed—This is a choice mixture of the Spencer varieties. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

1653 Diversity Collection—One packet each of the twelve Spencers, as named and described above. One packet of each, \$1.00. One ounce of each, \$3.00.

1673 Grandiflora Mixed—A mixture of the free-flowering grandiflora class. Flowers are smaller, but more abundant than the Spencers. Pkt., 5c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.50.

1676 Perennial Sweet Peas (Lathyrus) ★—A very popular perennial variety and it should be more generally used. Mixed colors. Blooms second year. Pkt., 10c; oz., 60c.

### Sweet Williams ★

- 1680 Dark Crimson      1682 Scarlet Beauty

- 1681 Pink Beauty      1683 Finest Mixed

Each of the above: Pkt., 5c; ¼ oz., 40c; oz., \$1.50.

1690 Finest mixed. ⊙ Pkt., 10c; ¼ oz., 50c; oz., \$1.75.

### Verbena ⊙

Deservedly a universal favorite. A constant bloomer and has a sweet fragrance.

New Century Mammoth—The most beautiful colors, largest flowers and largest clusters.

- 1700 Scarlet, white eye      1705 Yellow  
1701 Pink shades      1706 Purple, white eye  
1702 Purple shades      1707 Scarlet  
1703 Blue Shades      1708 Finest Mixed  
1704 White

Each of the above: Pkt., 10c; ¼ oz., 50c; oz., \$1.50.

1710 Candidissima—Large clusters of pure white flowers. Pkt., 10c; ¼ oz., 35c.

1711 Defiance—A true scarlet, large and extra fine. Pkt., 10c; ¼ oz., 35c.

1712 Banner Blue—A fine blue. Pkt., 10c; ¼ oz., 35c.

1713 Banner Verbena Collection—Red, white and blue. One packet each of our national colors, 25c; ¼ ounce of each, \$1.00.

### Wallflower ⊙

Fine for outdoor bedding and cut flowers. Greatly prized for their exquisite fragrance.

- 1730 Red      1733 Brown  
1732 Yellow      1734 Finest Mixed

Each of the above: Pkt., 5c; ¼ oz., 25c; oz., 75c.

### Wistaria ★+

1740 One of the most popular hardy vines, easily grown from seed. Pkt., 10c.

### Zinnia ⊙

1745 Gold Medai Dahlia Flowered—The largest and best Zinnias grown. Mixed colors. Pkt., 25c; ¼ oz., \$1.25; oz., \$4.00.

Splendor—You will wonder at their large size and clear colors.

- 1760 Bright Rose      1764 Scarlet  
1761 Yellow      1765 White  
1763 Purple      1767 Finest Mixed

Each of the above: Pkt., 10c; ¼ oz., 50c; oz., \$1.50.

Pigmy or Liliput—Plants are small and of bushy growth. Beautiful little blossoms.

- 1780 Canary Yellow      1783 White Gem  
1781 Dark Crimson      1784 Finest Mixed  
1782 Golden Gem

Each of the above: Pkt., 10c; ¼ oz., 50c; oz., \$1.50.

### Flower Seed Mixtures

1790 Wild Garden Mixture—Contains many surprises. Pkt., 5c; ¼ oz., 10c; oz., 25c.

1810 Flowers for Bouquets ⊙—Pkt., 10c; ¼ oz., 25c.

1830 Mixed Everlasting (Straw Flowers) ⊙—Pkt., 10c; ¼ oz., 25c; oz., 75c.





Perennial flowers are so satisfactory that every garden should have a perennial border or, at least, a corner where they can grow undisturbed. They will increase in beauty from year to year. We list varieties that are perfectly hardy and ones that should do well in any soil.

Our Iowa climate, with its cold winters and hot, dry summer weather, produces hardy perennial plants that are exceptionally vigorous and capable of withstanding even more severe climates.

All of our perennials are field grown and are shipped the day they are dug. We are sure that their quality will please you.

### Achillea

**Roseum**—Has finely cut foliage. Flowers are rose color, fading to pink. Each, 25c; 3 for 50c; dozen, \$1.75, postpaid.

**The Pearl**—Large white double. Fine for cutting and are used by florists for piece work. Each, 20c; 3 for 50c; dozen, \$1.75, postpaid.

### Anchusa

**(Italica)**—(3 ft.) Has rather coarse, hairy leaves. Blossoms of lovely shades of blue on tall, spreading spikes. Each, 25c; 3 for 50c; dozen, \$1.75, postpaid.

### Aster

Grows 3 feet tall. Has good foliage and is covered from August till frost with small, bright blossoms. Pink, red, white, purple or lavender. Each, 25c; 3 for 50c.

### Astilbe

**(Japonica)**—A plant with leaves like Spirea. Has pink, feathery blossoms on a spreading plume. Each, 25c; 3 for 50c.

### Bleeding Heart

Flower stalks have sprays of pendulous red hearts. Foliage fine. This is one of the fine, old-fashioned, hardy plants that was found in every garden a generation ago. Our stock is strong and free from disease. Large roots. Each, 75c; 2 for \$1.00; dozen, \$4.50, postpaid.

### Boltonia

**(Latisquama)**—(5 ft.) The foliage is light gray-green. The bush is covered during August and September with pink flowers much like the aster. Each, 25c; 3 for 60c, postpaid.

### Calamieris

Has an abundance of white blossoms like daisies in August.

Grows 4 feet high. Flowers are nice for cutting. Each, 25c; 3 for 50c; dozen, \$1.25, postpaid.

### Chinese Lantern Plant

**(Scarlet Ground Cherry)**—The large scarlet pods or lanterns are used for winter bouquets. Each, 20c; 3 for 40c; dozen, \$1.25, postpaid.

### Coreopsis

A very popular hardy flower with bright yellow blossoms from June to October, 3 feet tall. Each, 25c; 3 for 50c; dozen, \$1.25, postpaid.

### Day Lily

A plant of neat habit that is fine for borders and will do well in the shade. Has tall spikes of flowers in July. Blue only. Each, 20c; 3 for 40c; dozen, \$1.25, postpaid.

### Delphinium

**Gold Medal Hybrids**—Most flowers have two colors. No two are just alike. Very fine. Each, 35c; 3 for 75c; dozen for \$2.75, postpaid.

### Foxglove

**Digitalis**—(3 to 5 ft.) These stately old garden favorites have tall spires of blossoms which range from white to purple. Protect them with straw the first winter. Each, 30c; 3 for 75c; dozen, \$2.50, postpaid.

### Gaillardia Grandiflora

**(Blanket Flower)**—(20 in.) Flowers are bright orange and red in rays or rings. Very attractive and showy. Good for cutting. Half a dozen plants will supply bouquets all summer and fall. Each, 20c; 3 for 40c; 6 for 75c, postpaid.

### Gypsophila

**(Baby's Breath)**—A spreading gray-green bush covered with myriads of tiny blossoms on feathery panicles. Fine for bouquets. Much used by florists. Each, 20c; 3 for 40c; dozen, \$1.40, postpaid.

### Linum

**(Perennial Flax)**—One of the prettiest. Foliage is gray-green and fresh crops of sky-blue flowers cover it each morning. Each, 20c; 3 for 40c; dozen, \$1.25, postpaid.

### Lythrum

This is one of the newer perennials and a very fine one. It grows about 30 inches tall and has spikes of rose-colored blossoms all summer. Each, 40c; 3 for \$1.00; dozen, \$3.50, postpaid.



ASTILBE



## Phlox

Hardy phlox are very desirable because they bloom abundantly during July and August. The varieties we offer are all field grown and are good, popular sorts.

**B. Comte**—Rich, satiny, red flowers. Each, 40c; 3 for \$1.00; dozen, \$3.50, postpaid.

**Bridesmaid**—Pure white, with large crimson-carmine eye. Each, 35c; 3 for 90c; dozen, \$2.50, postpaid.

**Miss Lingard**—Pure white, the earliest of all. Blooms all summer; fine for cut flowers. Each, 35c; 3 for 90c; dozen, \$2.50, postpaid.

**Mrs. Chas. Dorr**—A tall, vigorous lavender. Each, 35c; 3 for 90c; dozen, \$2.50, postpaid.

**Rhynstrom**—Beautiful rosy pink color. A good, strong grower and very free-flowering. Each, 40c; 3 for \$1.00; dozen, \$3.50, postpaid.

**Sir Edwin Landsier**—A good light red, slightly tinged with rose. Each, 40c; 3 for \$1.00; dozen, \$3.50, postpaid.

**Mixed**—Fine large plants in mixed colors. Three for 50c; dozen, \$1.50; or one each of the six named above for \$1.90.

## Mallows

(Mehan's Marvel)—(4 ft.) An improved Hibiscus. Has large flowers 10 inches in diameter. Mixed colors only. Each, 25c; 3 for 50c; dozen, \$1.75, postpaid.

## Monarda

(Didyma)—The plant has a mint fragrance. Flowers are bright scarlet. Each, 20c; 3 for 40c; dozen, \$1.40, postpaid.

(Mexican Red)—Flowers larger than Didyma; of rosy purple. Each, 30c; 3 for 60c; dozen, \$2.00, postpaid.

## Pentstemon

One of the newer perennials. Tall stalks of bright flowers like antirrhinums. Each, 25c; 3 for 50c; dozen, \$1.50, postpaid.

## Physostegia

(False Dragon Head)—Has white or pale pink flowers on tall stalks. Will bloom from July till frost if kept cut. Each, 20c; 3 for 40c; dozen, \$1.40, postpaid.

## Platycodon

(Balloon Flower)—(3 ft.) Rather a spreading plant, with large, bright blue flowers. Buds are like inflated balloons. Each, 25c; 3 for 50c; dozen, \$1.50, postpaid.

## Polemonium

(Jacob's Ladder)—Free-flowering, hardy herb. Flowers are sky blue and are borne in loose heads. Foliage is fern-like. Price: 35c each; 3 for 90c; dozen, \$3.00, postpaid.

## Poppy

(Oriental)—Blooms the last of May. Has bright blossoms 6 inches in diameter. Colors are the shades of scarlet or crimson. Plants should be set out in August and have a light mulch the first winter. They are a little difficult to start, but are well worth the effort. Each, 40c; 3 for \$1.00; dozen, \$3.50, postpaid.



HARDY PHLOX

## Primrose

The common yellow English primrose. Blooms freely in early summer. Multiplies rapidly. Each, 30c; 3 for 60c; dozen, \$2.25, postpaid.

## Pyrethrum

(Painted Daisy)—(20 inches.) Has pretty cut foliage and daisy-like flowers. Colors are shades of pink or red. Each, 25c; 3 for 50c; dozen, \$1.75, postpaid.

## Rudbekia

(Golden Glow)—One of the largest of the perennials and good for screen planting. Grows 6 feet high and is covered with myriads of bright yellow flowers. Each, 25c; 6 for 75c; dozen, \$1.25, postpaid.

## Saponaria

(Bouncing Betty)—Has clusters of double orchid and white flowers from June till frost. Will grow anywhere. Each, 25c; 3 for 50c; dozen, \$1.75, postpaid.

## Sedum Spectabilis

This is the largest of the Stonecrops or Live-Forever family. Has large umbels of rose-colored blossoms in August. Each, 25c; 3 for 50c; dozen, \$1.75, postpaid.

## Shasta Daisy

This is a fine selection of the popular white-flowered daisy. Each, 25c; 3 for 50c; dozen, \$1.50, postpaid.

## Solomon's Seal

A graceful native plant. Has 3-foot stems with rows of green blossoms in pairs, followed by blue-black berries. Each, 30c; 3 for 60c; dozen, \$2.25, postpaid.

## Sweet William

(12 inches.) A spreading plant with large clusters of flowers. Most of our stock is double and ranges in color from pure white to dark red. Nice for cutting. Mixed colors only. Each, 20c; 3 for 40c; dozen, \$1.25, postpaid.

## Veronica

Has flowers of cornflower blue on slender stalks. Each, 20c; 3 for 40c; dozen, \$1.40, postpaid.

## Yucca

Adam's Needle—This is the soapweed of the western plains. The swordlike foliage is ever green. Flowers are creamy white bells that hang from a 3-foot stalk. Each, 40c; 3 for \$1.00; dozen, \$3.00, postpaid.

## Special Hardy Flower Collection

This splendid assortment includes one each of the following hardy plants:

Coreopsis	Platycodon
Gaillardia	Hemerocallis Lily
Gypsophila	Wallacei Lily
Phlox-Bridesmaid	Physostegia
Shasta Daisy	Sedum Spectabilis

All postpaid for only \$1.65.





## Iris

The German or tall bearded Iris are very satisfactory because they will do well in almost any situation. They increase rapidly by root division and soon make nice, large clumps or they can be divided and replanted every two or three years. They are growing in popularity and we are adding a few good varieties each year. Ours are all strong field-grown plants which we ship the same day we dig them, so we are sure their quality will please you.

Iris are nice used alone or with other perennial plants in a border or a row in the garden will furnish bouquets for six or eight weeks. If they are cut while in bud and put into water they will keep for a long time.

**Afterglow**—Soft grayish pink lighted with buff. Color is like the evening sky after sunset. Each, 40c; 3 for \$1.00; doz., \$3.00, postpaid.

**Celeste**—Is a fine open flower, large and satiny blue. Has long, fine stems. Blooms profusely. Each, 25c; 3 for 50c; doz., \$1.25, postpaid.

**Dalila**—Standards are white slightly tinted lilac; falls are rich violet red. A lovely and striking flower. Each, 40c; 3 for \$1.00; doz., \$3.25, postpaid.

**Flavescens**—Standards cream white; falls primrose. This is the tall late creamy white which is so common. Each, 25c; 3 for 50c; doz., \$1.25, postpaid.

**Florentina**—Blue standards and purple falls. This is one of the best rich blues. Blooms early and flowers last well. Each, 25c; 3 for 50c; doz., \$1.25, postpaid.

**Florentia Alba (Silver King)**—Has silvery white blossoms and is pleasingly fragrant. Very early. Each, 25c; 3 for 50c; doz., \$1.25, postpaid.

**Gypsy Queen**—Standards are dull, creamy yellow; falls deep purple shaded bronze. Plants are large and vigorous and bloom freely, so are fine for mass planting. Each, 25c; 3 for 50c; doz., \$1.25, postpaid.

**Eugene Sue**—Creamy white, with purple spots and lines. Each, 30c; 3 for 50c, postpaid.

**Hollandia**—A clear, reddish mauve throughout. This is a very distinct and lovely variety, one that always

attracts attention. Each, 25c; 3 for 50c; doz., \$1.60, postpaid.  
**La Innocence**—A good late white. Each, 25c; 3 for 50c; doz., \$1.50, postpaid.

**Lohengrin**—A beautiful shade of silvery lilac with pink tones. A vigorous grower producing large flowers in abundance. Each, 30c; 3 for 75c; doz., \$2.50, postpaid.

**Madame Chereau**—White with each petal delicately frilled with a border of blue. It is fragrant and a lovely flower and one that has a long blooming season. Each, 25c; 3 for 50c; doz., \$1.25, postpaid.

**Monsignor**—A rich, satiny violet; falls same shade but heavily marked with rich purple. Buds and blossoms extremely large. Each, 35c; 3 for 75c; doz., \$2.25, postpaid.

**Mother of Pearl**—Standards and falls both pale lavender with pearly tints. Grows three to four feet high. One of the best known of the very new varieties. Each, 50c; 3 for \$1.30, postpaid.

**Nero**—Both standards and falls are the deepest velvety purple. Buds are long, wellshaped and almost black. Each, 40c; 3 for \$1.00; doz., \$3.00, postpaid.

**Niebellungen**—Standards fawn; falls violet purple on bronze. A large flower on very long stems. Each, 30c; 2 for 50c; doz., \$2.50, postpaid.

**Oriflamme**—Standards are very large and bright blue; falls are broad and long and dark purple. Each, 50c, postpaid.

**Pallida Dalmatica**—A large flower with lavender standards and deeper lavender falls. Produces an abundance of blossom. One of the best for cutting and is very sweet scented. Each, 25c; 3 for 50c, postpaid.

**Plumeri**—A coppery rose claret. Tall and strong and very attractive. Each, 25c; 3 for 50c, postpaid.

**Powhatan**—Standards light bishop violet with deeper border. Falls deep purple shaded crimson. Each, 30c; 2 for 50c, postpaid.

**Princess Victoria Louise**—Standards are rich sulphur yellow. Falls are rich plum bordered with cream. A striking and beautiful flower. Each, 25c; 3 for 50c, postpaid.

**Queen of May**—A lovely, rosy orchid, almost pink. Each, 30c; 2 for 50c, postpaid.

**Sans Souci**—Violet and yellow flushed apricot. Blooms freely. Each, 25c; 3 for 50c, postpaid.

**Shakespeare**—Standards are light yellow, veined with seal brown. Falls are deep carmine violet. Each, 25c; 3 for 50c, postpaid.

**Sherwin Wright**—Bright yellow, self-colored. Flowers are of good size and form. One of the best of the yellow iris. Each, 25c; 3 for 60c; doz., \$2.00, postpaid.

**Windham**—Standards soft lavender pink. Falls heavily veined darker. Flowers are very large. Each, 35c; 3 for 90c, postpaid.

**Wyomissing**—Standards creamy white, suffused soft rose. Falls deep rose shading to a flesh-colored border. A very pretty delicate flower. Each, 30c; 2 for 50c, postpaid.

**Spectabilis**—Standards clear, dark blue. Falls deep purple. Flowers very large. Each, 30c; 3 for 60c, postpaid.

**Calamus (Sweet Flag)**—This is the calamus mentioned in the Bible. Both leaves and roots have an aromatic odor and taste. There are no blossoms, but the plant is very decorative, especially on the margin of a stream or pool. Each, 20c; 4 for 50c, postpaid.

**Mixed Iris**—Mixed Iris in a good range of colors. Good, strong plants, not labeled. These are all good varieties, some of them fine, new sorts. This is a mixture you will like. Ask for prices on larger lots. 4 for 50c; 10 for \$1.00; 25 for \$2.25, postpaid.

## Collection of Iris

One each of the following:

Sherwin Wright	Silver King
Princess Victoria Louise	Windham
Pallida Dalmatica	Powhatan

All carefully labeled for \$1.00, postpaid.



## Peonies

The peony is one of the finest of the hardy perennials and one that is vigorous and easy to grow. The flowers are large and attractive, and the foliage is rich, glossy and ornamental even when the plants are not in bloom. They are free from disease and insects. Many of the flowers have a lovely rose fragrance. In the central states the early varieties are usually in blossom for Memorial Day. Peonies should be ordered early, so they can be shipped before they start to grow. We send out large divisions with five to eight eyes. We are sure you will be pleased with their size and quality.

## Red Peonies

**Grandiflora Rubra**—Has magnificent, blood-red flowers. It is probably the largest red variety in existence. Give it good, rich soil. Each, 75c; 3 for \$1.50, postpaid.

**Grover Cleveland**—Dark crimson, rose type, late. It is a very strong, vigorous grower and flowers are very large and full. Each, 80c; 3 for \$1.75, postpaid.

**Felix Crousse**—Large, globular, bright red. A solid, late-blooming flower. One of the finest reds. Each, \$1.00; 3 for \$2.00, postpaid.

**Karl Rosenfield**—This is one of the newer peonies, a fine, deep red, very double and solid blossoms. Much like Felix Crousse. Each, \$1.50, postpaid.

**Prince Imperial**—Semi-rose type, late midseason. Amaranthine red. Each, 75c; 2 for \$1.25, postpaid.

**Unnamed Red**—Good red double peonies. Our selection. Each, 50c; 3 for \$1.00, postpaid.

**Rubra Triumphans**—A rich, satiny, crimson flower. Blooms early and has a pleasing odor. Each, 75c; 3 for \$1.50, postpaid.

**Fern Leaf Peony**—This plant is small, low-growing and has fern-like foliage. The flowers are very double, rich crimson in color and are the first to appear. They increase very slowly and are very rare. Each, \$3.00; large plants, \$5.00, postpaid.

## Pink and Rose Peonies

**Edulis Superba (Decoration Day Peony)**—Fine shell pink. Large double blossom. Is called the Decoration Day Peony because it blooms early and is usually in bloom the last of May. Each, 60c; 2 for \$1.00, postpaid.

**Floral Treasure**—A soft, delicate blush pink. Very prolific. Flowers are very large and double. Has a lovely rose fragrance. Each, \$1.00; 3 for \$2.00, postpaid.

**Humei**—A cherry pink blossom with silvery tips. One of the fine pinks. Each, 75c; 3 for \$1.50, postpaid.

**Mikado**—Is one of the best of the single Japanese peonies. It has bright rose petals with a large group of yellow stamens in the center, and is very attractive. Each, 75c; 3 for \$2.00, postpaid.

**Monsieur Jules Elie**—Color is a pale lilac rose with silvery reflex. An unusually fine variety with an extra large bomb-type flower. This is a fine, large pink. Each, \$1.50, postpaid.

**Ruth**—Color of the American Beauty Rose. Foliage is glossy green. The flower is large, perfectly double and has the stamens scattered among the petals. Each, 65c; 3 for \$1.25, postpaid.

**Victoria Tricolor**—This is a very pleasing blossom. The outer petals are pale rose, inner petals corn color and the center bright rose. Each, 60c; 3 for \$1.40, postpaid.

**Unnamed Pink**—Good pink double. Our selection. Each, 50c; 3 for \$1.00, postpaid.



PEONIES

## White Peonies

**Baroness Schroeder**—This is a fine, large, late variety. A strong, vigorous grower that blooms after Festiva Maxima is gone. Has a delicate fragrance. Each, \$1.50, postpaid.

**Festiva Maxima**—By far the best double white. Flower an immense perfect globe. Color pure, snowy white, center marked with carmine. Each, 75c; 3 for \$1.50, postpaid.

**Marie Lemoine**—Flowers open a faint blush, but change to white when fully open. Late, delicately fragrant. Each, 75c; 3 for \$1.50, postpaid.

**Queen Victoria**—A fine early white. Blossoms are double and compact. Each, 75c; 3 for \$1.50, postpaid.

**Water Lily Peony (Albiflora)**—A fine single white with large, yellow stamens. Very prolific. Foliage is covered with the large blossoms. Each, 75c; 3 for \$1.50, postpaid.

**Unnamed White**—Good white double. Our selection. Each, 50c; 3 for \$1.00, postpaid.

**Mixed Peonies**—Good, double peonies from our regular stock. Your choice of color, red, pink or white. Each, 50c; 3 for \$1.00; 12 for \$3.50, postpaid.

## Tricolor Bargain Peonies

**Humei** One large division of each of  
**Festiva Maxima** these three colors for \$1.35, post-  
**Grandiflora Rubra** paid.



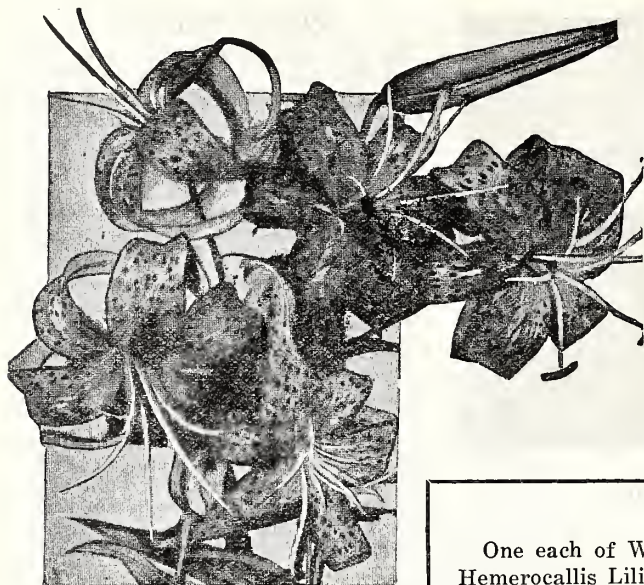
While the use of peat moss is comparatively new in this section, we believe that it can very profitably be used where barnyard fertilizer is not available. It improves the physical condition of the soil and if it is mixed with commercial fertilizer the results obtained will be very satisfactory. It can also be used as a mulch for perennials and is especially valuable for roses. Not prepaid, 10 lbs., 60c; 25 lbs., \$1.75; 150-lb. bale, \$5.00.

## Garden Cultivator



This well-made garden cultivator will work ideally in the perennial garden. It is light and yet strong enough for practical use. The handle is long to prevent stooping. These garden cultivators can be supplied with 3 or 5 teeth. The 3-tooth style at \$1.00 and the 5-tooth at \$1.25, by express.





TIGRINIUM SPLENDENS

### Hardy Lilies

Because of their stately beauty the Hardy lilies are being widely used. They require little care and add materially to the attractiveness of any permanent planting. Plant either fall or spring and most of them will bloom the first season.

**Tigrinum Splendens**—The improved single tiger lily. Grows 4 or 5 feet high. Has bright orange blossoms, spotted with black. July and August. Each, 25c; 3 for 50c; dozen, \$1.75, postpaid.

**Double Tiger Lily**—Has large, double, orange flowers spotted with black. Grows 5 feet tall and is specially effective with a background of evergreens. Each, 25c; 3 for 50c; dozen, \$1.75, postpaid.

**Wallacei**—A dwarf lily about 2 feet tall. Has blossoms of rich orange with maroon spots. Each, 25c; 3 for 50c; dozen, \$1.75, postpaid.

**Speciosum Rubrum**—Flowers are white, with deep rosy or crimson band on each petal, with deeper colored spots between. Each, 40c; 3 for \$1.00; dozen, \$3.50, postpaid.

**Speciosum Album**—The finest of the pure white, hardy, perennial garden lilies. Has large white flowers of great substance, beautifully recurved. Each, 60c; 3 for \$1.50; dozen, \$5.00, postpaid.

**Auratum (Gold Banded Japanese Lily)**—This is one of the finest hardy lilies. Flowers are large, ivory white, spotted with crimson and have a wide gold band down the center of each petal. Blooms from June to September. Each, 50c; 3 for \$1.25; dozen, \$4.00, postpaid.

**Candidum (Madonna Lily)**—Has glistening white flowers on stiff, strong stems. It is similar to the Easter Lily, but has the advantage of being hardy and desirable for outdoor planting. It prefers an open, sunny position. Each, 60c; 3 for \$1.50; dozen, \$5.00, postpaid.

**Lily of the Valley**—Produces clusters of fragrant white blossoms in early spring. They are very hardy and multiply rapidly. The should be planted in a moist, shady place. Dozen, 40c; \$3.00 per 100, postpaid.

### Hemerocallis Lilies

The Hemerocallis lilies have tubers instead of bulbs, and have yellow or orange blossoms. They are perfectly hardy and will thrive anywhere, but will bloom longer if

they have moisture and shade. Flowers are true lily shape and are borne in clusters on long, slender stems.

**Altrina**—Has 3-foot stems with clear yellow blossoms. Varnish brown on back of each petal. Blooms in June. Each, 30c; 3 for 50c; dozen, \$1.75, postpaid.

**Lemon Lily**—Has bright, lemon-colored blossoms with delicate fragrance. Each, 25c; 3 for 50c; dozen, \$1.75, postpaid.

**Orangeman**—This is the best of the orange lilies. Has bright orange-colored blossoms in May and June. Each, 25c; 3 for 50c; dozen, \$1.75, postpaid.

**Sovereign**—Grows fully 4 feet tall and has fine clear yellow blossoms in late July and August. Each, 30c; 4 for \$1.00; dozen, \$2.50, postpaid.

**Thunbergii (Buttercup)**—This is similar to the lemon lily, but blooms much later. Has open blossoms of clear butter yellow. Each, 25c; 3 for 50c; dozen, \$1.75, postpaid.

### Collection of Lilies

One each of Wallacei, Single Tiger Lily, Double Tiger Lily, and two Hemerocallis Lilies for \$1.00, postpaid.

### SPRING BULBS

#### Amaryllis

**Johnsonii**—Of strong, vigorous growth. Brilliant red flowers, with petals striped with white. Very fragrant and attractive. Each, 50c; 3 for \$1.25; dozen, \$4.00, postpaid.

**Giant Flowered Hybrids**—These produce very large blooms that are wonderfully varied and brilliant in color. Price, 75c; dozen, \$8.00, postpaid.

#### Caladium

**Esculentum (Elephant's Ear)**—A splendid tropical plant, growing 4 to 5 feet, with immense leaves often growing 3 feet long. Of easy culture. Large bulbs, 35c; 3 for 95c; dozen, \$3.00, postpaid.

#### Calla Lily

**Golden Yellow**—This magnificent new yellow calla is of marvelous beauty. The flowers are very large and of the brightest golden yellow. Leaves beautifully spotted with white. Each, 35c; 3 for 90c; dozen, \$3.00, postpaid.

**White**—Flowers are pure white, borne 3 or 4 on a stem, and are very fragrant. Each, 35c; 3 for 90c; dozen, \$3.00, postpaid.

#### Cinnamon Vine

Well-known climber; quick grower, with beautiful, glossy, heart-shaped leaves and sweet-scented flowers. Each, 15c; 3 for 35c; dozen, \$1.25; 25 for \$2.00, postpaid.

#### Maderia Vine

One of the best and most popular annual climbers for foliage effect. Each, 10c; 3 for 25c; dozen, 90c; 25 for \$1.75, postpaid.

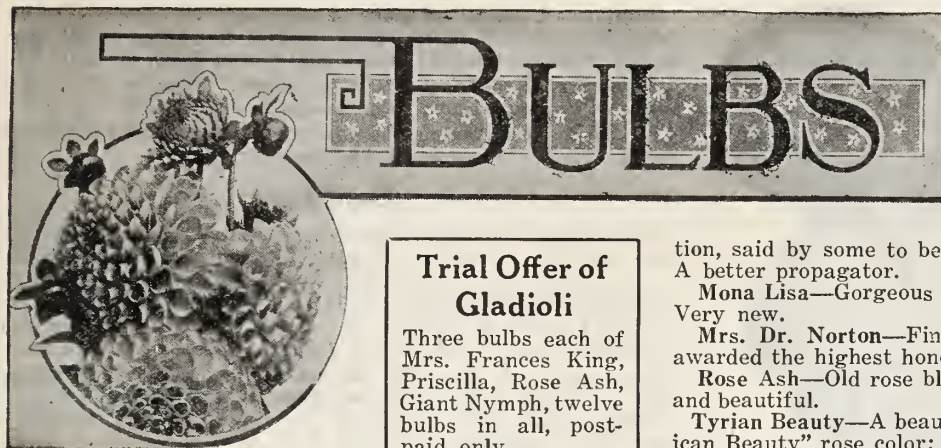
#### Oxalis

These small plants are very attractive in borders or for edging. They produce beautiful foliage and blossom continually. Mixed colors. Dozen, 30c; 25 for 50c; 100 for \$1.75, postpaid.

#### Tuberoses

**Excelsior Double Pearl**—One of the most fragrant and beautiful of summer flowering bulbs. Each, 10c; dozen, 75c; 100 for \$5.50, postpaid.





### Trial Offer of Gladioli

Three bulbs each of Mrs. Frances King, Priscilla, Rose Ash, Giant Nymph, twelve bulbs in all, postpaid, only

**95c**

### Gladioli

You can plant gladioli anywhere and anytime during the spring up until June 15. They make excellent cut flowers throughout the summer and they work in very nicely in informal borders or formal beds. They can also be planted in groups among the shrubbery.

Any of the following varieties at 5c each; 3 for 14c; 12 for 50c; 100 for \$3.50, postpaid.

Ames—Early; light, creamy salmon.  
E. J. Shaylor—Beautiful, pure, deep rose-pink, ruffled.  
Halley—A dependable early salmon pink.  
Le Marechal Foch—Large, early pink; one of the best.  
Mrs. Frances King—Light scarlet. No new variety has yet taken its place.

Peace—Tall, very strong growing; the best commercial late white.

1910 Rose—Early, bright rose-pink.  
Prince of Wales—Very early; clear salmon with yellow throat; one of the most beautiful varieties; delicate.

Any of the following varieties at 8c each; 3 for 22c; 6 for 40c; 12 for 75c; 100 for \$5.50, postpaid.

Anna Eberius—Dark, velvety purple; large flower set on tall spike. Greatly admired.

Baron Hulot—Deep violet blue; one of the best blues.  
Elora—White with yellow and crimson throat.

Evelyn Kirtland—Long straight spike; large pink flowers; one of the best.

Golden Measure—The best exhibition yellow; extra large flowers on tall spikes; an indispensable yellow.

Mrs. H. E. Bothin—One of the loveliest combinations in glads. It has created a sensation wherever shown. Light geranium pink, blotched throat, heavily ruffled.

Mrs. Frank Pendleton—Light pink, blotched red; long spike.

Majestic—Orange-pink; very early.

Niagara—A good yellow; a favorite variety.

Odin—Early salmon pink.

Princepine—Rich carmine red with a distinct white blotch.

Rose Glory—Large ruffled, light pink flower.

War—Tall spike; blood-red flower; solid color.

White City—A new and purer white; lily-like flowers.

Any of the following varieties at 12c each; 3 for 35c; 6 for 65c; 12 for \$1.25; 100 for \$8.75, postpaid.

A. W. Hunt—Large flame orange-red, wide open flowers on strong, sturdy stem.

Carmen Sylva—An Iowa production of great merit. The coming commercial white.

tion, said by some to be the equal of Golden Measure. A better propagator.

Mona Lisa—Gorgeous flower of palest, soft rose-pink. Very new.

Mrs. Dr. Norton—Finest cream and pink. Always awarded the highest honors.

Rose Ash—Old rose blended with ash gray. Distinct and beautiful.

Tyrian Beauty—A beautiful, large flower, near "American Beauty" rose color; grand.

Wellington—Large reddish purple, with lighter blotch.

Any of the following varieties at 20c each; 3 for 55c; 6 for \$1.00; 12 for \$1.75; 100 for \$12.00, postpaid.

Crimson Glow—A perfect, very large, deep scarlet-crimson; flowers on a tall, strong spike.

Dr. F. E. Bennett—The new orange-flame. Will replace any scarlet now grown commercially.

Lucie—Clear light yellow. Lower petals flushed crimson in throat. Flowers have good substance and are well arranged. It is extremely early and hence is in great demand.

Mrs. F. C. Peters—The color is a beautiful shade of rose-lilac. Flowers of large size and many open at a time on a strong, perfectly straight stem. Very choice variety.

Remembrance—Deep rose with throat of carmine; ruffled. 20c each; \$2.00 dozen, postpaid.

Longfellow—Tall spike with large, wide open, La France pink blooms. One of the greatest commercial varieties of all times on account of the perfect placement and splendid color. \$1.00 each; \$10.00 dozen, postpaid.

Marietta—A fine, tall salmon, with a large burnt orange blotch. Splendid color harmony. 50c each; \$5.00 dozen, postpaid.

Mrs. Laura Shedd Schweep—Large flowered pink with dark throat. 50c each; \$5.00 dozen, postpaid.

Splendor—Dark, rich, velvety red. 50c each; \$5.00 dozen, postpaid.

### Primulinus

We have a wonderful selection of the primulinus varieties for you.

Alice Tiplady—Large flowering; brilliant orange saffron. Very popular and in strong demand. 10c each; \$1.00 dozen, postpaid.

Altair—Bright saffron yellow. 10c each; \$1.00 dozen, postpaid.

Jewell—Beautiful flower of clear salmon pink. 10c each; \$1.00 dozen, postpaid.

Ming Toy—The most beautiful of all Primis. Yellow shaded to old gold. No collection should be without this flower. 15c each; \$1.50 dozen, postpaid.

Mrs. Agnes Whiting—A soft, clear yellow. 5c each; 50c dozen; \$3.50 per 100, postpaid.

Myra—A giant flowered primulinus. Deep salmon over yellow. Exquisite, showy. 10c each; \$1.00 dozen, postpaid.

Priscilla—Rosy salmon; large and ruffled. 10c each; \$1.00 dozen; \$7.00 per 100, postpaid.

Primunella—Ruffled orange-pink. 10c each; \$1.00 dozen, postpaid.

Salmon Beauty—Very large flowered Primulinus. Deep salmon, rich salmon-yellow throat. 15c each; dozen, \$1.50, postpaid.

Best Mixed Gladioli—A mixture of a large number of good varieties. Dozen, 50c; 100 for \$3.50, postpaid.





### Cannas

Cannas always will be popular for bedding purposes. They are easily grown and they increase in number rapidly. They should be dug just after frost and stored in a cold basement. Our prices are for dormant roots, divided ready for planting.

**Austria**—Height, 6 feet. The giant golden lily flowered canna. Flowers 6 to 8 inches across. Plant a strong grower. Each, 20c; dozen, \$1.50, postpaid.

**Burbank**—The American orchid flowering canna. The flowers are immense in size, the upper petals spreading fully 7 inches. Toward the inner part the petals show fine crimson spots, all the rest of the flower being a rich, canary yellow. Each, 20c; dozen, \$1.50, postpaid.

**Mrs. Florence Hall**—Height, 4 feet. A striking new variety. Green foliage, yellow flowers with red markings. Larger flower. Each, 25c; dozen, \$2.00, postpaid.

**Charles Henderson**—Height, 4 feet. Green foliage; one of the finest bedding varieties. Compact, vigorous growth and free bloomer. Color is a deep, rich crimson. Each, 20c; dozen, \$1.50, postpaid.

**King Humbert**—Scarlet flowers, bronze leaves. One of the most popular cannas. Each, 25c; 3 for 60c; dozen, \$2.00, postpaid.

**Yellow King Humbert**—Foliage very dark green; flowers very deep yellow, spotted with light red. Each, 25c; 3 for 60c; dozen, \$2.00, postpaid.

**Richard Wallace**—Height, 4½ feet. Flower canary yellow. Dark green, massive foliage and strong grower. Each, 20c; dozen, \$2.00, postpaid.

**The President**—3½ feet tall. Very profuse bloomer. Flowers bright red color. Green foliage. Each, 20c; dozen, \$2.00, postpaid.

**Shenandoah**—3½ feet. The best pink canna. Leaves green. Flowers very large, with immense petals. Very compact, almost dwarf and of a very luxuriant growth. Each, 20c; dozen, \$2.00, postpaid.

**Wintzer's Colossal**—5 feet. A striking vivid scarlet that retains its brilliancy. One of the largest flowering of all, producing immense trusses. Each, 20c; dozen, \$2.00, postpaid.

**Wyoming**—5 to 6 feet. Bronze foliage. Flowers a beautiful shade of orange. Each, 20c; dozen, \$2.00, postpaid.

**Mixed Bedding Cannas**—A mixture of the different sorts and colors. Each, 15c; dozen, \$1.00, postpaid.

### Dahlias

The dahlias we offer are good, large, dormant bulbs that have been carefully stored and divided for planting. They are one of the showiest of the autumn flowers. The tubers should be dug right after frost and carefully stored over the winter.

**A. D. Livoni**—A splendid clear pink, beautifully quilled and of perfect form. Each, 30c; 3 for 75c; dozen, \$2.50, postpaid.

**Castlemain**—A beautiful bronze yellow. Large, striking flowers. Each, 40c; 3 for \$1.00; dozen, \$3.25, postpaid.

**Delice**—Decorative; a bright pink suffused with lavender. Each, 35c; dozen, \$3.50, postpaid.

**D. M. Moore**—Flowers of mammoth size; color, deep, velvety maroon. Each, 50c, postpaid.

**Dreer's White**—A pure white, flowers large, ball shaped, with closely quilled petals. Each, 25c; dozen, \$2.50, postpaid.

**Jack Rose**—So named because its color is like General Jacqueminot Rose. Each, 25c; 3 for 60c; dozen, \$2.00, postpaid.

**Jersey's Beauty**—Flowers a true pink color, very large, borne on strong stems. An excellent new sort. Each, \$1.00, postpaid.

**Lyndhurst**—Decorative. Color a brilliant cardinal red. Each, 25c; dozen, \$2.50, postpaid.

**Manhattan Beauty**—An excellent flower; free blooming. Striped red and white in distinct contrast. Each, 25c; 3 for 60c; dozen, \$2.00, postpaid.

**Mrs. C. H. Breck**—A splendid variety for the garden or for cutting. Flowers double, soft yellow suffused with carmine. Each, 50c, postpaid.

**Mrs. Ide Ver Warner**—One of the best dahlias grown. Color, deep mauve-pink on strong stems. Each, 75c, postpaid.

**Millionaire**—Very large, lavender-pink, tinting to white at center. Each, 50c, postpaid.

**Pride of California**—A brilliant, cardinal red, large size and free flowering. The best of its color. Each, 50c; dozen, \$5.00, postpaid.

**Queen Victoria**—Golden yellow; blooms early. Each, 25c; 3 for 60c; dozen, \$2.00, postpaid.

**Sylvia**—A lovely shade of mauve pink. Each, 25c; 3 for 65c; dozen, \$2.60, postpaid.

**Mixed Colors**—Striped, red, yellow, pink, mixed. Each of the above, 20c each; 3 for 50c; dozen, \$1.50, postpaid.

### Hardy Ferns

Hardy ferns are being used in quantity for massed planting and for corners about the house where the sun does not strike. Such places can be wonderfully beautified by the use of hardy ferns.

For best results hardy ferns should be planted in ordinary garden soil to which has been added leaf mold. If the ground is not sloping it will be well to raise it between two and three inches to improve the drainage. Ferns should not be planted too deep. The crown should be left exposed to the air.

**Adiantum Pedatum (Maidenhair Fern)**—The most graceful of all our native ferns. Attains height of 12 to 15 inches when grown in rich soil in moist, shady location. 25c each; \$1.50 dozen; \$12.00 per 100, postpaid.

**Osmunda Claytoniana**—Grows 2 to 3 feet high. Is usually found native in rather dry, shaded places. Does well under cultivation. 25c each; \$1.75 per dozen; \$15.00 per 100, postpaid.



# Hardy Perennial Plants

The hardy plants offered in this list are an addition to the ones offered on pages 24 and 25. Among these you will find several new and popular varieties.

## Achillea

**Boule De Nieve** (12 inches). The spreading plant is covered with clusters of small white double blossoms. Each, 25c; 3 for 50c; doz., \$1.75; postpaid.

## Anthemis

**Kelwayii** (Hardy Marguerite). The daisy-like yellow blossoms are produced all summer. Excellent for cutting. Height, 2 feet. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Aquilegia

**Long Supred Hybrids** (Columbine). This is the best type of the Columbines. Flowers are very large in size and their colors range from white to crimson, including blue and yellow. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Belamcanda

**Chinensis** (Blackberry Lily). Iris-like foliage with tall, branched stems bearing numerous small lily-like flowers of orange and red, followed by clusters of large blackberries. Excellent for dry borders in sun. Height, 2 to 3 feet. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Bellis Perennis

**Dwarf English Daisy**. An extremely hardy little plant, often showing blooms as early as March and continuing until July. It frequently blooms again in Autumn. Flowers white tipped with pink or red. A favorite plant for edging the hardy border. Each, 25c; 3 for 50c; doz., \$1.75; postpaid.



BELLIS PERENNIS

## Boltonia

**Asteroides**. Among the showiest hardy plants with large single Aster-like flowers. The plant is in bloom during the summer and autumn months with its thousands of flowers open at one time producing a very striking effect. Pure white, very effective. 6 to 7 feet. Good for cutting. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Campanula

**Rotundifolia** (Blue Bells of Scotland). Small, drooping, purplish-blue bell-shaped flowers, the flower buds being erect, borne on delicate wiry stems 6 to 12 inches high. Good for rock-garden, naturalizing, or edging a hardy border. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Centaurea

**Montana** (Perennial Corn Flower). Violet-blue flowers similar to the annual Corn Flower. Makes a fine display in the border and also excellent for cutting. Blooms from June to September. Height 2 feet. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Chelone

**Shellflower**. A very handsome perennial, growing about 2 feet high. Flowers are attractive bright pink borne on long stems. An excellent plant for the hardy border. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Chrysanthemum, Hardy

This is the flower above all others that gladdens your heart when your garden is growing bare. The varieties we offer will give a flowering period of two months, from the middle of September to the middle of November.

**Autumn Glow**. Rose crimson, large.

**Golden Queen**. Yellow, large.

**L'Argentuillais**. Bronze flowers tipped yellow, of medium height. Early large flowering.

**Little Bob**. Bronze bottom.

**Little Dot**. Rich mahogany crimson.

**Old Homestead**. A buff pink. One of the best.

**Skibo**. A very early-flowering pompon type of medium height. Plant covered with blossoms which open bronze, changing to a rich yellow retaining a small bronzy center. Flowers about 1½ inches across. Very hardy variety.

**White Doty**. Late-flowering, tall and upright, very stiff stem carries flowers high where they will not get soiled. A splendid pure white pompon.

Price of any of the above: Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Cineraria

**Maritima**. A low growing, old-fashioned garden plant, sometimes known as "Dusty Miller." It has silvery gray foliage, downy beneath; used for vases and hanging baskets and for margins in the hardy garden. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Echinacea

**Rudebeckia Purpurea** (Purple Cone-flower). Large daisy-like flowers, varying from rosy purple to light rose, with high painted purple central cone freely borne on a compact, bushy, rather coarse plant from 2 to 3 feet high. Excellent for hardy border and good for cutting. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Helianthus

**Augustifolius** (Autumn Glory). A late Autumn perennial, very tall growing; has showy yellow flowers with black centers. It should be more generally known. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Lathyrus

**Latifolius** (Perennial Sweet Pea). An extremely hardy and easily cultivated climber. Vigorous grower, the flowers are borne in clusters.

**White Pearl**. Pure white.

**Pink Beauty**. Pleasing rosy pink colored flowers.

**Red**. Rosy red.

Price of any of the above: Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Liatris

**Pashnostachia** (Blazing Star or Gayfeather). A perfectly hardy perennial of luxuriant growth, producing richly colored purple flowers on stout stalks 6 feet high in graceful spikes 1 foot long. In bloom during July and August. First rate cut flower. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Linaria

**Dalmatica**. This can best be described as a perennial Snapdragon. Flowers are yellow and as large as the large flowered annual Snapdragon. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Nierembergia Frutescens

**Tall Cup-flower**. A much branched plant from 1 to 2 feet tall. The flowers are white tinted with lilac or blue, throat yellow. Very attractive. Valuable as a border plant in the hardy garden. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Physalis

**Japanese Lantern**. The large scarlet pods or lanterns are used for winter bouquets. Each 20c; 3 for 40c; doz., \$1.25; postpaid.



## Sedum

**Variegated.** Foliage is attractively variegated yellow and green. Leaves are smaller than *Sedum Spectabilis*. Its contrasting foliage makes it valuable as a border plant or grouped among the lower growing perennials. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Shasta Daisy

**Alaska.** This is a fine selection of the popular large white flowered daisy. Each, 25c; 3 for 50c; doz., \$1.50; postpaid.

**Giant Daisy.** Giant plants 4 to 7 feet tall. Flowers are large, white and fine for cutting. Blooms September and October. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

**Mrs. C. Lothian Bell.** This magnificent white Daisy is undoubtedly the largest flowered of its class. Height 2½ to 3 feet. Extra fine for cutting. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Valeriana

**Officinalis** (Garden Heliotrope). Produces showy heads of rose-tinted white flowers during June and July with delicious, strong Heliotrope odor. Height 3 to 4 ft. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

## Verbascum

**Hybridum, Miss Willmott.** The large white flowers are produced in stately spikes, rising to a height of 5 to 6 feet and continue from July to frost. Each, 25c; 3 for 60c; doz., \$2.00; postpaid.

# New and Unusual Flowers for Your Garden



## Abronia

**Umbellata Grandiflora** (Sand Verbena). A charming trailing succulent plant, with Verbena-like heads of fragrant flowers of bright rose with white center; it delights in a dry, poor soil and sunny situations on rockwork. Pkt., 10c.

## Anagallis

**Grandiflora Coerulea.** It is one of the most charming and conspicuous of our low growing blue flowers, but must have a sunny place to do well. The plants spread rapidly and bloom freely. The flowers are of a real turquoise-blue color. Pkt., 15c; ¼ oz., 50c.

## Anchusa

**Capensis** (Summer Forget-me-not). A showy plant with bright Gentian-blue flowers, borne in drooping racemes from July to October. The stems and leaves are hairy. Similar in all respects to the Forget-me-not, though the blossoms are much larger and of finer color. Pkt., 10c.

## Cosmos

**Hollywood Star.** This odd variety appeared in the Crested Cosmos a few years ago. It has a center from which issue closed quilled-like petals the tips of which are cut and slightly curled. It is a mixture of red, white and pink. Pkt., 25c.

## Erysimum (Fairy Wallflower)

**Perofskianum.** A pretty annual, growing about 18 inches high, bearing throughout the summer dense racemes of brilliant orange-yellow Wallflower-like flowers, a rather unusual color in annuals. It is of the simplest culture. Sow the seeds in the open ground in spring and give it a sunny position. Pkt., 10c; ¼ oz., 20c.

## Eschscholtzia

**Ramona.** A single flower with frilled edges which gives it an appearance of a semi-double. The color is a pale but glittering coppery gold with pink shadings. Pkt., 15c.

## Gaura

**Lindheimeri.** 3 ft. A graceful plant with strong, leafy stems, bearing numerous spikes of white flowers flushed with pink from July until frost. Especially sun-loving and drouth-resisting. Pkt., 10c.

## Gilia

**Capitata** (Blue Thimble Flower). 2 ft. Beautiful bushy plant of erect habit with fine feathery foliage covered all summer with rich lavender-blue flowers. 1 inch across, much like *Scabiosa*. Makes a good cut flower as the blooms last well in water. Pkt., 10c.

## Larkspur

**Improved Exquisite.** Upright growth and color a soft pink shaded salmon. Pkt., 15c.

**La France.** The flowers are a pleasing salmon-pink, very large and double, well-placed on long stems. Pkt., 25c.

## Malope

**(Mallow-Wort).** 2 ft. Showy plants for large mixed flower and shrubbery borders. The flowers are large and handsome. Flowers blush, shaded pink toward center. Pkt., 10c.

## Poppy

**Tulip** (Glaucum). 20 in. Large tulip-shaped flowers of dazzling scarlet; not unlike a Scarlet Von Thol Tulip. Pkt., 10c.

## Rudebeckia

**Bicolor Superba** (Coneflower). 2 ft. Produces an abundance of bright yellow flowers with brown central disc; fine for cutting. Pkt., 10c.

## Sanvitalia

**Procumbens.** An annual of dwarf compact growth; useful in masses in beds, or edges of borders, or in vases, baskets, etc. Showy bright yellow, double flowers; in bloom all summer. Pkt., 10c.

## Tagetes

**Signata Pumila.** A dwarf, compact, bushy annual Marigold, with beautiful, fern-like leaves, densely covered with flowers of bright, golden-yellow; first class border plant; 9 inches. Pkt., 10c; ¼ oz., 40c.

## Zinnia

**Mexicana Hybrida.** 16 in. Flowers the size of a large daisy, single, semi-double and double, and the colors are in the most unique, pleasing and numerous variations. In it are found shades peculiar to the Marigold, the Gaillardia, and the Chrysanthemum. They are extremely free-flowering and pretty. Pkt., 15c.



Have the  
*finest garden*  
in the  
block!



Experienced gardeners find that Vigoro gives *sure results*—a quick, vigorous start—crisp succulent vegetables.

Clean, *odorless*, sown by hand like grass seed—Vigoro is not to be compared with any other plantfood you have ever known! Ideal for lawns and flowers, too.

And not at all costly!

Enough concentrated nourishment in a 100 lb. sack for garden or lawn 50 x 50 to 50 x 100 feet! Only 2 to 4 lbs. per 100 square feet!

Full directions for applying Vigoro in every bag. In paper-lined bags of 100, 50, 25 lbs., and 5 lb. packages. Order Vigoro today for all the things you grow.

A Swift & Company Product

Endorsed by  
Leading  
Landscape  
Gardeners &  
Nurserymen

**VIGORO**  
Makes better lawns,  
gardens, flowers, trees  
and shrubs



100 lb. bag.....	\$5.00	25 lb. bag.....	\$1.75
50 lb. bag.....	3.00	5 lb. pkg.....	.50

By freight or express.

**Easier, Better  
Gardening and  
so much faster!**

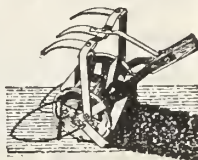


**Kills Weeds and Makes Moisture-Retaining Mulch**  
Here is wonderful relief from the hard WORK of gardening. Just guide the New Improved EASY Garden Raiser down the rows. Easy to operate. Ten times faster than hoeing. And does much better work. Kills every weed. The surface soil is finely pulverized, thoroughly mixed and aerated. Makes the soil ideal for retaining moisture and developing strong vigorous plants. Use once a week and after every rain.

**Easy**

New Improved  
**GARDEN  
RAISER**

Has improvements over any other method. Cultivates, kills weeds and mulches soil in one swift, easy operation. Eight revolving blades pulverize clods and break up the soil crust. Keen underground knife of plow-steel cuts and kills all weeds. Soil is lifted by the underground knife and filled with air. Helps to release the wealth of plant-building elements.



No. 1 Easy—8½ inches wide.....	\$8.50
No. 2 Easy—10½ inches wide.....	9.00

By express.

**Manure! More Manure!**

You must have manure, and thanks to ADCO you can have quantities of it. You can turn every bit of vegetable refuse—cuttings, weeds, leaves, etc., from the garden, straw and cornstalks from the farm, into rich manure by the simple ADCO Process. Information free.



25 lb. bag.....	\$2.50
100 lb. bag.....	9.00

By express or freight.

ESTABLISHED 1894  
**SACCO**  
TRADE MARK REGISTERED  
**PLANT FOOD**  
*Makes things Grow!*

Sacco Plant Food is the product of one of the oldest and best known manufacturers of Plant Foods and fertilizers. It has been scientifically proved that practically every soil is deficient in some or all of the vital plant feeding elements. Sacco is a perfect blend of these essential elements—clean, odorless and easy to use. Concentrated, a small amount goes a long way.

A single application of Sacco Plant Food on your lawn will brighten and improve its growth in a week or ten days. Frequent light applications will keep it green and luxuriant throughout the summer and fall. A thickly matted turf is soon developed, crowding out and gradually eliminating dandelions, plantain and other weed pests. Sacco is easy to use—simply scatter it by hand as you would sow grass seed. Apply to flower beds in the same manner and scatter about the base of shrubs. Specific instructions for the amounts needed for various plants are included in every package of Sacco Plant Food.

**PRICES**

100 lb. bag.....	\$5.00
50 lb. bag.....	3.00
25 lb. bag.....	1.75
10 lb. bag.....	.85
5 lb. bag.....	.50



By express or freight.



## Increase Farm Profits and Gardening Pleasures

Prevent Disease Losses by Using Du Bay Seed Disinfectants



### SEMESAN—for vegetable and flower seeds

Diseases often reduce germination and result in a poor stand, lowered quality and reduced yield of vegetables and flowers. Kill these harmful disease organisms on the seed with Semesan before planting. Semesan may be applied as a dust or liquid and is harmless to seeds. Effective in controlling damping-off of seedlings and certain cuttings. Full directions in can for use on vegetable and flower seeds and bulbs. Prices: 2 oz. \$.50; 1 lb., \$2.75; 5 lb., \$13.00; 25 lb., \$56.25.

### SEMESAN BEL—for seed potatoes

Potato diseases cause a loss equivalent to the yield of 1 acre in every 5 or 6 acres planted. Much of this loss can be prevented by treating seed before planting with Semesan Bel, the instantaneous dip disinfectant. Effective in controlling such seed-borne diseases as scab, rhizoctonia and black leg. Protects seed piece from rotting caused by certain soil borne organisms, improves germination and usually produces a bigger crop of better quality. One pound treats 16 to 22 bushels of seed. Prices: 4 oz., \$.50; 1 lb., \$1.75; 5 lb., \$8.00; 25 lb., \$31.25.

### SEMESAN JR.—for seed field and sweet corn

Our corn crop is reduced over 80 million bushels annually by diseases that are carried on the seed. Destroy these costly diseases by treating your seed corn with Semesan Jr. Simple, quick, effective. Costs only 2½¢ an acre. Harmless to seed, does not slow up the rate of drop. Semesan Jr. destroys harmful disease organisms on the seed, protects seed from rotting in cold wet soil, makes earlier planting possible, controls seedling blight, reduces root and stalk rots and generally increases crop yields. Use 2 oz. per bushel of seed. 4 oz., \$.50; 1 lb., \$1.75; 5 lb., \$8.00; 25 lb., \$31.25.

### CERESAN—for seed grains

Why lose part of your grain crops through smuts and other diseases? Prevent them and protect your profits by treating all seed grains with Ceresan before sowing. Effective in controlling stinking smut and seed-borne flag smut of wheat; seedling blight of cereals caused by seed-borne scab; smuts of oats; covered smut and stripe of barley; kernel smuts of sorghums and millets; and seed-borne stem smut of rye. Seed may be treated in spare time. Ceresan is harmless to seed and does not injure grain drills. Only 2 ounces needed per bushel of seed wheat, rye, sorghums or millets and 3 ounces for oats and barley. Prices: 1 lb., \$.75; 5 lb., \$3.00; 25 lb., \$12.50.



## SEED DISINFECTANTS

## SHEPS PLANT SPRAY (NON-POISONOUS)



Get rid of destructive insects. Use SHEPS Plant Spray. Kills and controls both sucking and chewing insects but absolutely harmless to humans, birds, animals and pets. Will not "burn" delicate leaves or flowers. Makes green, healthy, lustrous foliage. No soap solution needed—simply mix with water.

### PRICES POSTPAID

2-oz. Bottle (makes 4 gals. Spray Solution).....	\$ .35
8-oz. Bottle ( " 16 " " " ).....	.75
Pint Bottle ( " 32 " " " ).....	1.25
Quart Can ( " 64 " " " ).....	2.00

Bulk Prices on Request.



## Fungtrogen

Controls Black Spot and Mildew

A valuable spray to control black spot and mildew, highly recommended by the best professional growers. This strongly concentrated fungicide conquers mildew on Roses and all other plants practically over night. It also controls black spot. Use Fungtrogen on all plants, such as Hollyhocks, Geraniums, etc., as soon as you discover that they are showing signs of mildew attacks. Fungtrogen is an excellent preventive for rust on Carnations and the disease of Delphinium.

½ pint can.....	\$ .75
1 pint can.....	1.25

By express.

## Spray Plants With Ever Green

Kills most plant pests, including cut worms, yet is harmless to man, birds and animals. Use it freely on tender plants even when in flower, as it will not injure them in any way.

Ever Green is easy to use. Just mix it with water and stir. It is pleasant to use, economical, does not deteriorate, perfectly safe in every way, does not injure the soil, kills slowly but surely, does not affect metal, and does away with such widely distributed and injurious enemies of plants as cut worms, cabbage worms, aphids, in fact, practically all sucking and chewing insects.



1 oz. bottle.....	\$ .35
6 oz. bottle.....	1.00
16 oz. bottle.....	2.00
32 oz. bottle.....	3.85

By express.



# Garden Tools and Supplies

Transportation on these items to be paid by purchaser unless marked postpaid.

## Garden Trowels

Enameled steel trowel. 19c each. Mailing wt., 1 lb.

Wooden handled steel trowel. 35c each. Mailing wt., 1 lb.

Tool steel trowel with wooden handle. \$1.00 each. Mailing wt., 1 lb.

## Transplanting Trowels

Enameled steel trowel. 25c each. Mailing wt., 1 lb.

Wooden handled steel trowel. 25c each. Mailing wt., 1 lb.

Dibber—Curved handle for plant setting. \$1.00 each.

## Weeders

Excelsior Claw Weeder—25c each. Mailing wt., 1 lb.

Enameled Steel Weeder. 25c each. Mailing wt., 1 lb.

Wooden handled tool steel claw weeder. 45c each. Mailing wt., 1 lb.

Ideal Hand Weeder—Has five cutting edges. 25c each. Mailing wt., 1 lb.

No. 1 Beet Weeder—Similar to the Ideal Weeder only larger. 60c each. Mailing wt., 1 lb.

Dandelion Digger—Tool steel with wooden handle. Length, 12 in. 35c each. Mailing wt., 1 lb.

Out-U-Kum Weed Puller—Has long handle to prevent stooping. 75c each.

## Asparagus Knife

Asparagus Cutter—Similar to Dandelion Digger only has longer handle. 45c each. Mailing wt., 1 lb.

## Hand Fork

3-Tine Wooden Handle Fork—Length, about 8 in. 65c each. Mailing wt., 1 lb.

## Hoes

Garden Hoes—Best quality onion hoe type. \$1.25 each. By express.

## Rakes

Garden Rakes—Best quality steel rakes. 12 in. width, \$1.50; 14 in. width, \$1.60; 16 in. width, \$1.75.

Lawn Rakes—17 in. width, \$1.75.

Bamboo Lawn Rakes—Light weight, yet durable. 75c each.

Yeoman Steel Rake—Similar in shape to Bamboo Lawn Rake. \$1.00 each.

## Forks

Spading Fork — Best quality durable fork. \$2.40 each.

## Garden Plow

Firefly Plow—A long handled plow. Excellent for opening furrows. Very strong and durable. \$4.50 each.

## Mole Traps

Little Giant—Self-setting trap. \$1.35.

No. 2—Extra heavy and durable. \$2.00.

## Grass Tools

Planet Jr. Grass Edger—Has rolling cutter to trim along walks and borders. \$1.60 each.

Planet Jr. Star Pulverizer and Weeder—An excellent small cultivator for the perennial border. Light and easy to operate. \$3.25 each.

Grass Sickles—With offset handle. 75c.

Grass Whip—Used for cutting tall grass or weeds. Has long handle which makes stooping unnecessary. \$1.00.

Du-Clip—A new type grass shear. \$1.50.

Grass Shears—Well made. Village Blacksmith quality. \$1.00 per pair.

Norcross Hand Cultivator

—Has three prongs and a wooden handle about 10 in. long. Ideal for cultivating around established plants. Price 60c each. Mailing wt., 2 lbs.



NORCROSS CULTIVATOR

## Garden Hose

Garden Hose— $\frac{5}{8}$  in. moulded rubber hose, best quality. 12c per ft. Copulings free with 50 ft. or more.

Hose Nozzles—Diamond nozzle. All brass. 50c each.

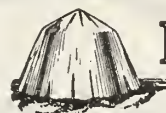
## Planters and Seeders

Segment Corn Planter—An ideal hand planter for corn, beans, etc. Accurate drop. \$2.25 each.

Cyclone Seed Sowers—An excellent small machine for broadcasting grass, clover and small grain. \$2.25 each.

Horn Type Seeder—For broadcasting grass and clover seed. \$1.25 each.

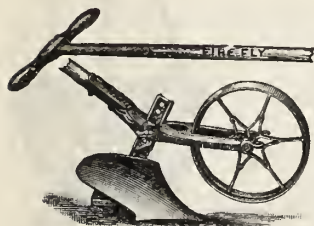
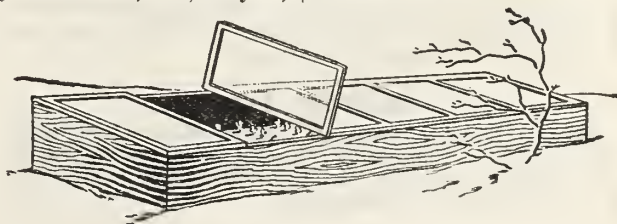
Hot-Kaps—A wax paper cover for tender plants such as mellons, cucumbers, etc. Protects plants from insects and weather changes. 11 in. in diameter. Price, \$2.00 per 100; \$11.00 per 1,000. By express.



Germac  
**Hotkaps**  
New Method of  
Plant Protection

## Glass Cloth

Suntex—An extra good quality glass cloth. Much used for cold frames and hot beds. 36 in. width, 40c yd.; 5 yds. or more, 35c; 15 yds., \$5.00.





## Cel-O-Glass

**Cel-O-Glass**—Ideal for cold frames, hot beds, or small greenhouses. Ask for free circular describing its use. 36 in. width, \$1.25 yd.; 10 yds. or more, \$1.15 yd.

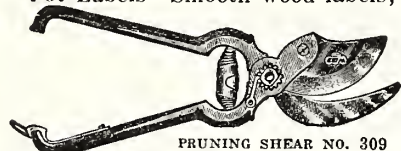
## Moss

**Sphagnum Moss**—For packing plants and nursery stock. Per bale, \$1.50.

## Labels

**Tree Labels**— $3\frac{1}{2}$  inch. Copper wired. Per 1,000, \$3.75. Weight 4 lbs. 50c per 100, postpaid.

**Pot Labels**—Smooth wood labels; 4 inch, per 100, 40c; per 1,000, \$2.40. 6 inch, per 100, 60c; per 1,000, \$4.00. 10 inch, per 100, \$1.25; per 1,000, \$9.00. Mailing weight, 4 inch, 4 pounds; 6 inch, 6 pounds; 10 inch, 10 pounds, per 1,000. Price per 100 is postpaid.



PRUNING SHEAR NO. 309

## Pots

**Paper Flower Pots**—Made of heavy, strong waterproof paper. Fine for growing vegetable plants, pansies, asters, etc. Prices:  $2\frac{1}{4}$  inch, \$1.00 per 100, postpaid; 3 inch, \$1.30, postpaid; 4 inch, \$2.00, postpaid. Not prepaid,  $2\frac{1}{4}$  inch, \$5.00 per 1,000; 3 inch, \$8.00 per 1,000; 4 inch, \$12.00 per 1,000. Weight, 30 pounds per 1,000.



PRUNING SHEAR NO. 209

coating grafts.  $\frac{1}{2}$  lb., 25c.

**Raffia**—This is the natural color for tying and grafting work. Price, 60c per lb.

**Grafting Wax**—A preparation for

## Pruning Shears

No. 209—Malleable steel. Good serviceable shear, \$1.50.

No. 309—A very serviceable shear. Coil spring. \$2.50.



## Hedge Trimmers

Wooden handle. This Wiss shearer has 9 in. cutting blade with serrated edge. \$3.50 each.

Steel handle. Wiss made. 9 in. serrated blade. \$3.00 each.

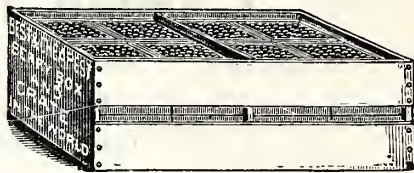
## Garden Hose Reel

**Reel Easy**—A substantial reel that rolls the hose up by pushing the reel along the hose. Will hold up to 100 ft. of hose. Price, \$2.00, by express.

## Sparrow Trap

**Everset Trap**—A practical trap for reducing the number of sparrows and giving the song birds a better chance. One customer reported 83 sparrows caught in one day. Price \$4.75 each, by express.

## Berry Boxes and Crates



**American Berry Boxes**—These are the basket boxes all ready made up for use. Price \$1.00 per 100; \$9.00 per 1,000. By express or freight.

**Crates**—24 qt. crates for American boxes. Shipped knocked down. 35c each.

**K. D. Berry Boxes**—The best white wood, cut smoothly and perfect shape. Size,  $4\frac{3}{4} \times 4\frac{3}{4} \times 3\frac{3}{4}$ . Price per 100, 90c; 1,000, \$7.50. Weight 15 pounds per hundred.

**Pint Boxes**—Same as regular quart size, except they are only 2 in. high. Price per 100, 85c; 1,000, \$7.00.

**Crates**—Made of thoroughly seasoned wood, well ventilated at sides and bottom, but with a tight cover to protect from dust. Shipped in the flat or knock down. Hold 24 quart boxes. Price, per 10, \$3.00. Weight each, 5 pounds.

**Crates for Pint Boxes**—24 pint size. Per 10, \$2.50; Per 100, \$21.00. Weight,  $3\frac{1}{2}$  pounds.

**Berry Box Tacks**—Made of the very best Swedes iron. 1 lb. (will make a thousand boxes), 50c; 5 lbs., \$2.00.

**Magnetic Tack Hammers**—Pick up the tacks and save much of the labor. Each, 30c, postpaid.

## Peony and Tomato Supports

These are made of heavy wire, electrically welded. Two loops, supported by three upright wires, give the plant a very effective and good looking support.

No. 1—14 in. diameter for small plants, 35c each; \$3.50 per dozen.

No. 2—18 in. diameter for large established clumps, 45c each; \$4.50 per dozen.

## Hanging Baskets

**Wire Hanging Baskets**—Are made of wire to be lined with moss and filled with dirt. They are light, strong and durable and have chain attached. 8 in. size, with enough moss to line it, 50c each; 10 inch, 60c; 12 inch, 75c, postpaid.

## Pot Brackets

**Wire Brackets**—This pattern is a very handsome bracket, made of tinned wire and easily put up. Simple, practical, durable. Price, 25c each; \$2.50 per dozen, postpaid.



POT  
BRACKET



WIRE HANGING  
BASKET



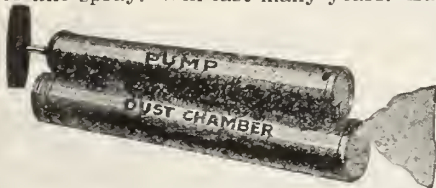


**The Auto Spray No. 9**—Compressed air sprayer. Kept clean without difficulty. Diameter 7 inches. Height 2 feet. Capacity  $3\frac{1}{2}$  gallons. Shipping weight 15 pounds. Brass tank with "Auto Pop," \$10.35. Galvanized tank with "Auto Pop," \$7.35.

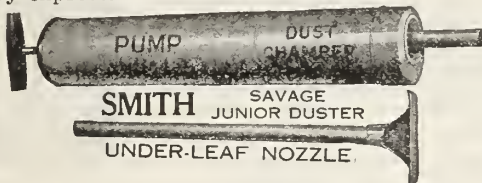
**Lever Bucket Spray Pump**—Will not rust. Price, by express, \$6.00. Eight foot extension pipe (for use among large trees), by express, 75c. Shipping weight of pump, 9 pounds; of pipe, 5 pounds.

**Little Giant Bucket Pump**—Made by Myers. One of the best selling pumps. Handle attached direct to plunger. Price \$4.50.

**Myers' Barrel Spray Pump**—A heavy brass cylinder barrel pump for use in orchards and vineyards. It clamps onto the barrel so that it is rigid. It is equipped with 15 feet of hose and a graduated nozzle for either coarse or fine spray. Will last many years. Each, \$15.00.



**Double Barrel Dust Gun**—The Double Barrel Dust Gun will handle all insecticides and is used for dusting. Provided with large dust chamber which is easily filled. With each stroke of the pump, the gun throws out a cloud blast of dust, thereby rapidly covering large areas. Easily operated. Efficient and wastes no dust. Price 75c each, by express.



**Savage Junior Duster**—For dusting vegetables, flowers, bushes, small trees and poultry houses. Handles Arsenate of Lead, Calcium, Paris Green, Sulphur, Carbola, Slug Shot, Cyanogas and other dusts perfectly. Dusts without waste and easily operated. Long air chamber develops strong blast. Large poison chamber. Thorough atomization of poison makes it impossible for lumps to feed through nozzle. Throws long broad dust blast straight ahead. A splendid high grade duster. Dusts everything in powdered form. Built of finest material and made to stand long, hard service. Price \$1.00 each, by express.



## SPRAYERS

FAULTLESS  
SPRAYER

**Improved Faultless or "Misty" Sprayer**—The spray nozzle protrudes through the tank, making it strong. Mailing weight 2 pounds. By express, brass, \$1.25; galvanized iron, 75c; tin, 50c.

**The Continuous Faultless Sprayer**—Made in such a way that the action of the plunger forces a continuous fine mist spray and drawing back plunger does not stop the flow of the spray. Add postage. Mailing weight, 2 pounds. By express, brass, \$1.50; galvanized iron, \$1.25; tin, \$1.00.

**Sturdy Spray Pump—Accordion or Trombone Type**—The Sturdy has no leather packings, valves, or other parts to wear out. With slow, easy pumping, the nozzle throws a powerful, continuous, unbroken spray or stream as desired. May be used with any pail, bucket, can, barrel or tank by simply placing the bucket strainer in such vessel. It works with ease on the up-and-down stroke. One brass tube works inside the other, has brass ball valves, which will not corrode or rust. It will spray the tallest tree from the ground. Used with a barrel for large orchard work. It is easily operated by one man. Price \$5.00 each.

**Bucket Duster**—With perforated bottom, used for applying Slug Shot or other forms of powdered insecticides. Each, by express, 75c. Shipping weight 3 pounds.

## Spray Materials

**Hammond's Slug Shot**—Guaranteed to destroy potato bugs, and those on tomato and egg plants, currant worms, cabbage lice and worms. Price, 1 lb., 25c; 5 lbs., 75c; 10 lbs., \$1.40.



**Black Leaf 40**—Is a solution of Nicotine Sulphate. It is highly recommended by Experiment Stations throughout the United States as a spray for soft bodied sucking insects. For spraying only. Directions must be followed carefully. 1 oz. bottle, 35c;  $\frac{1}{2}$  lb. can, \$1.25, makes 40 to 100 gallons; 2 lb. can, \$3.25, makes 200 to 500 gallons.

**Pomo-Green**—The new green Fungicide for roses and other flowers and ornamentals; will control black spot, mildew, and chewing insects. 1 lb., 50c; 5 lbs., \$1.50; 25 lbs., \$7.00.

**Sulpho Tobacco Soap**—One of the best remedies for greenfly on roses and house plants.  $\frac{1}{2}$  lb. box, 30c; 3 oz. package, 15c.

**Hellebore Powdered, White**—Less poisonous than Paris Green and safer to use when fruit and vegetables are nearly ripe.  $\frac{1}{4}$  lb., 20c;  $\frac{1}{2}$  lb., 35c; 1 lb., 60c.

**Flowers of Sulphur**—Lb., 15c; 10 lbs., \$1.00.

**Fumigating and Dusting Powder**—Formerly sold under the name of Tobacco Dust. By express, 1 lb., 15c; 10 lbs., \$1.00; 100 lb. bags, \$6.00.

**Derrisol**—Is an odorless nonpoisonous liquid, which will control sucking insects like aphids, thrips, leaf hoppers and red spiders, also controls currant worms and other leaf-eating larvae. Oz., 35c; 8 oz., \$1.20; 2 lbs., \$3.00; 10 lbs., \$12.00.

**Tree Tanglefoot**—Perfect safeguard for trees. Lb., 60c; 5 lbs., \$2.75; 10 lbs., \$5.25.



# ACME INSECTICIDES FUNGICIDES



## Acme All Round Spray

Flowers, vines, shrubs, roses, vegetables need protection same as commercial crops. All Round Spray contains the three leading remedies used by all large growers, Arsenate of Lead, Nicotine Sulphate and Bordeaux Mixture.

Perfect protection for the small user is assured by complete directions in form of spraying guide attached to every package.

Prices:  $\frac{1}{4}$  lb., 45c ea.; 1 lb., 95c ea.

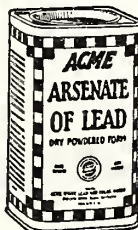


## Acme Paris Green

A rich, emerald color and of fine, fluffy physical character. Containing 55% arsenious oxide, it will give quickest control where extreme measures are necessary.

For use on: Potatoes, cotton, tobacco, also to mix with arsenate of lead for fruit tree spraying where quick results are necessary.

Prices:  $\frac{1}{4}$  lb., 20c; 1 lb., 50c; 5 lbs., \$2.40.



## Acme Arsenate of Lead (Lead-A-Nate)

The most favored arsenical insecticide found on the American market. It is safest to use on tender foliage and sticks well on the leaves. Recommended for fruit trees, vegetables, bushes and tobacco. Can be used as dust or spray.

Prices:  $\frac{1}{2}$  lb., 25c; 1 lb., 40c; 4 lbs. \$1.25; 100 lbs., \$25.00.



## Acme Garden Guard

A garden insecticide and fungicide for use as a dust. No water, no mixing, no mussy.

For use on: Cabbage, cauliflower, tomato plants, melon vines, currants and gooseberries and other vegetables, flowers and shrubs of many kinds.

Prices: 1 lb. sifter carton, 25c; 5 lbs., 75c.



## Acme Spray Soap

A (fish oil) soap effective in destroying many sucking insects and lice on plants, trees, ferns, etc. Also used extensively with cylinder oils in making oil emulsions to reduce the surface tension.

Its use with Nicotine greatly increases the value of that spray.

Prices: 1 lb., 35c; 5 lbs., \$1.25.

## Acme Two-Way Spray

A balanced insecticide and fungicide containing 14% Arsenate of Lead and 83% Bordeaux Mixture. Two results with one application.

Use wet or dry on: Apple, sour cherry, currant, gooseberry, grape, pear, plum, strawberry, pecan, bean, beet, cucumber, pepper, potato, tomato and many other fruits and vegetables.

Prices:  $\frac{1}{2}$  lb., 25c; 1 lb., 45c.



## Acme London Purple

A favored insecticide for 50 years. Now stronger and better than ever. London Purple is one of the lightest and fluffiest powdered insecticides on the market, assuring complete coverage and greatest adhesion to foliage.

For use on potatoes, cotton, tobacco, sugar beets and many other shrubs and vegetables affected by leaf chewing insects.

Prices:  $\frac{1}{4}$  lb., 15c; 1 lb., 35c; 4 lbs., \$1.10.



## Acme Bordeaux Mixture

Prevents large losses caused by blight, rot, mildew, scab, anthracnose and certain other fungous diseases. It stimulates plant growth and greatly increases the harvests. Almost every kind of vegetable, fruit and shrub can be greatly improved by the early use of Bordeaux Mixture.

Prices: 1 lb., 40c; 4 lbs., \$1.25.



## Acme Lime Sulfur

A standard 33° Baume lime and sulphur converted into a dry powder but having all the effectiveness of the liquid product when dissolved in water.

For use in dormant spraying against scale, peach blight, leaf curl and twig borer. Summer spraying against scab, soot, blotch, red spider and mite.

Prices: 1 lb., 35c; 5 lbs., \$1.35; 10 lbs., \$2.35.



## Acme Bait-M

An effective insecticide bait which will throw a ring of protection around shrubs, flowers and plants in garden and lawn.

For use against snails, slugs, cutworms, earwigs, sow bugs, grasshoppers and many other insects which migrate along the ground.

Prices: 1 lb., 35c; 3 lbs., 75c.



These items cannot be mailed. We ship by express or freight.



## ACME SPRAYING GUIDE

A Division of  
Acme White Lead and Color Works  
Detroit, Michigan

### WHEN AND WHAT TO SPRAY

Free

Write for this Fine Guide







## Books for better Gardens

**A Little Book of Climbing Plants**, by A. C. Hottes. A treatise on the uses of climbers, how to plant them, culture, pruning, training, propagation, insects, diseases, garden enclosures, and plant supports, lists of vines, both hardy and annual, ground covers, etc., 250 pages, cloth bound. \$1.90.

**Around the Year in the Garden**, by F. F. Rockwell. Gives seasonable directions for caring for the garden each week from January until the annual cycle is complete with "Putting the garden to sleep for the winter." 350 pages. Cloth bound. \$2.70.

**Bulbs That Bloom in the Spring**, by T. A. Weston. A complete volume, including the many beautiful spring-flowering bulbs that are planted in the fall. Cloth cover; 144 pages, fully illustrated. \$2.20.

**Garden Guide**. A complete handbook for the amateur gardener. 384 pages showing over 275 illustrations with chapters devoted to vegetables, flowers, fruit gardens, layouts, planting plans, preparing the ground, insects, fertilizers, vines, water plants, etc. Cloth bound. \$1.65.

**One Thousand and One Garden Questions Answered**, by A. C. Hottes. A book of 320 pages, copiously illustrated, gives valuable information and a wealth of garden facts which hundreds of men have spent their lives in obtaining. \$2.00.

**Practical Landscape Gardening**, by Cridland. Of particular value to the owner of the moderate sized suburban home. Nicely illustrated. \$2.50.

**Rock Gardens**, by Rockwell. Tells just where and how to make a Rock Garden, what plants to use and where to put them, illustrated. \$1.00.

**The Book of Annuals**, by Hottes. A reliable guide to the culture of annual flowers, over 100 separate species are described with full directions for their culture and uses. \$1.50.

**The Book of Perennials**, by Hottes. Devoted to the general principles of growing, using and propagating old-fashioned hardy perennial plants, \$1.50.

**The Book of Shrubs**, by Hottes. A new book, gives a complete, non-technical description of leading sorts and how to plant effectively, freely illustrated. \$3.00.

## Rabbit Supplies

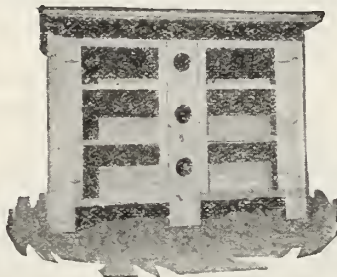
**Ready-Built Rabbit Hutch**. This is a complete hutch of 6 pens already cut and nailed ready to bolt together. All wood and hardware are furnished and all of the desirable features of improved hutches such as self-cleaning and convenient handling are included. Each compartment is 4 ft. by 2½ ft. The height of each hutch is 19 in., giving needed space for nest boxes. Knocked down ready for shipment by freight, \$26.50 each. Additional units without one end, \$25.00 each, f. o. b. Des Moines.

**Feed Crocks**—These stoneware feed crocks are ideal for feeding rabbits. The flange prevents wasting of the feed and they cannot be tipped over. Price each, 25c; \$2.50 per doz.; \$18.00 per 100. Wt. about 1½ lbs. By express or freight.

**Water Crocks**—Heavy stoneware crocks with concave bottom to prevent breaking when water freezes. They cannot be tipped over. Price each, 25c; \$2.50 per doz.; \$18.00 per 100. Wt. about 3½ lbs. By express or freight.

**Salt Spools**—Have small opening so that wire or nail can be used to fasten to inside of hutch. We can supply either pure salt or the sulphurized. Price each, 10c; 3 for 25c; 75c per doz.; \$5.50 per 100 f. o. b. Des Moines.

**Feed Racks**—This is a well constructed feeder made of heavy galvanized wire, soldered, and is indestructible. It is easily and quick-



RABBIT HUTCH

ly attached to any hutch with screws or nails. Price, each 45c; \$4.50 per doz. By express.

**Ear Marker Outfit**—Small metal marker suitable for making any kind of figure or character. Complete marker and indelible ink complete with directions \$1.00 postpaid. Extra ink per bottle, 50c postpaid.

**Hutch Cleaner**—A well made useful tool for the rabbitry. Made of indestructible material and will last for a long time. \$1.00 postpaid.

**Carbola**—This is an excellent disinfecting white paint for rabbit hutches. It can also be used dry in the winter time to disinfect and control insects.

5 lbs. makes 2½ gallons of paint. 5 lbs., 75c; 10 lbs., \$1.25; 25 lbs., \$2.50, f. o. b. Des Moines.

**Ear Canker Remedy**—Eliminates ear trouble speedily. Each 50c postpaid.

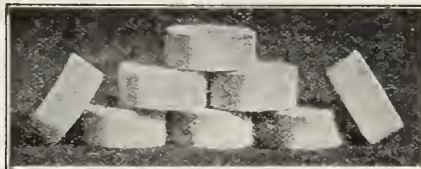
**Cold and Pneumonia Remedy**—An excellent treatment for snuffles. Each, 60c postpaid. Large size, \$1.00 postpaid.

**Eye Drops**—Recommended for treating weak and sore eyes. Bottle, 50c postpaid.

**Slobber Remedy**—A treatment for indigestion. Each 50c postpaid.

**Hardware Cloth**—This is square ½ in. mesh. Just the right size for the bottom screen on a self-cleaning hutch. 24 in. width any length, 15c per square foot.

**Poultry Netting**—The 1 in. mesh is ideal for making rabbit pens. See description and prices on page 42.



RABBIT SALT SPOOLS

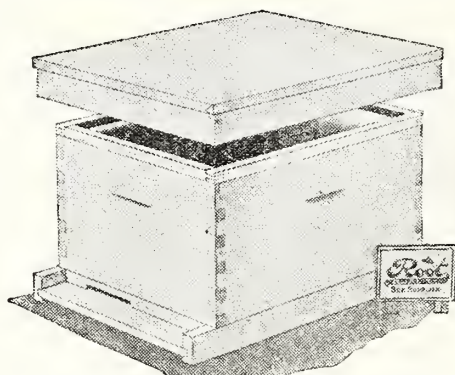


# Bee Supplies

Only a few items of our complete stock of bee supplies are offered on this page. Send for large illustrated catalog of bee supplies.

## The Standard Hive with Metal Cover

This hive is the standard hive of the world and is the one most generally used by both the small and large honey producers of the United States on account of its light weight and the ease with which it may be moved from one location to another.



STANDARD HIVE WITH METAL COVER

## Improved Packing Methods

Five one-story hives consist of one unit package of five bottoms, one of five covers, one of five bodies and one of fifty frames, making four packages instead of one as formerly packed; there are no hive-bodies exposed to injury in transit, they reach the customer clean, without the scars incident to a local freight shipment.

### Eight Frame

1-KD	21202	Wt. 34 lbs.	\$ 3.15
5-KD	21203	Wt. 128 lbs.	13.85

No Foundation

### Ten Frame

1-KD	22202	Wt. 37 lbs.	\$ 3.10
5-KD	22203	Wt. 145 lbs.	15.20

No Foundation

## Beeway Section Super

This comb honey super takes the  $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{7}{8}$  beeway sections. The majority of the comb honey produced in this country is produced in this style section super. The combs of honey can be handled speedily and easily as the formation of the corners of the sections leaves ample room to hold the combs of honey without the risk of bruising the cappings. The super is  $4\frac{3}{4}$  inches deep and may be used on either the standard or double-walled hive.

### Eight Frame

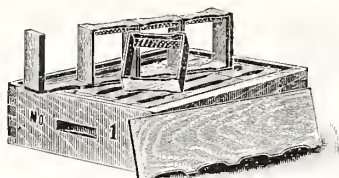
1-KD	21542	Wt. 7 lbs.	\$ .90
5-KD	21543	Wt. 35 lbs.	4.00

Without sections or foundations

### Ten Frame

1-KD	22542	Wt. 8 lbs.	\$1.00
5-KD	22543	Wt. 42 lbs.	4.50

Without sections or foundations



BEEWAY SECTION SUPER

## Comb Honey Sections

Only the clearest, toughest, white basswood lumber is used in making our sections, every foot of it being selected by lumber experts. Such lumber insures the best colored and toughest fibred sections possible.

### $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{7}{8}$ Spit Sections

100	2440s	7 lbs.	\$1.40
500	2442s	31 lbs.	6.75

### $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{7}{8}$ Two Beeway

100	2440	7 lbs.	\$1.30
500	2442	31 lbs.	6.25

### $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$ No Beeway

100	2430	6 lbs.	\$1.20
500	2432	28 lbs.	5.75

## Airco Comb Foundation

WHY AIRCO? Beekeepers want AIRCO because they know the bees accept it in the quickest possible time. The bees have to make over the base of ordinary foundation. The AIRCO foundation has the steep pitch which the bees prefer. The bees do not change the angle of the new foundation, for it is already just right. A few hours' time saved in the building of the comb is therefore of great importance, but of more importance still is the advantage of providing wax and foundation that are at once acceptable and attractive to the bees.

	Medium Brood	3 Ply Brood	Thin Super
One 10 sheet carton	5110 \$ 1.08	5000 \$ 1.24	1 lb. \$ .94
One 50 sheet carton	5113 5.07	5003 6.00	5 lb. 4.45
One 25 lb. wood box	5115 19.75	5005 20.50	25 lb. 21.75

## Root Indestructible Bee Veil

A bee veil is a small item in beekeeping equipment, but is a very important one. Do not buy cheaply made bee veils if you expect comfort and service.

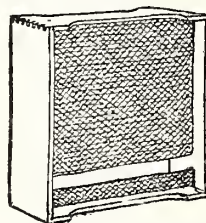
255 Root Indestructible Bee Veil, shipping weight 1 lb., 90c.

## Smokers

A bee smoker is the most important single implement used in the Apiary. We carry all sizes in stock.

427 Big Jumbo Tin Smoker, 4x10 in., 3 lbs., \$1.60

423 Standard Tin Smoker,  $3\frac{1}{4} \times 7$  in., 2 lbs., 1.00



COMB HONEY SECTION WITH FOUNDATION

## Hoffman Frames

These are the regular size,  $9\frac{1}{8} \times 17\frac{7}{8}$ . Use in the standard hives, either eight or ten frame. The notched corner construction greatly strengthens the frame. No. 2910, per 10, 75c; per 50, \$2.90; per 100, \$5.70. Weight, 46 pounds per 100.



# POULTRY FEEDS AND SUPPLIES

Our Iowa Shield Brand Poultry Feeds are mixed in our own plant and are of the highest quality. Years of experience in mixing poultry feeds enables us to offer you clean, wholesome, well balanced rations that give excellent results. Prices are subject to change. Write for complete poultry feed list.

**Iowa Shield Starter Mash**—Includes dried buttermilk, yeast and powdered cod liver oil. An ideal feed for young chicks. \$5.00 per 100 lbs.

**Iowa Shield Growing Mash**—A mash feed for birds from one month old to maturity. \$4.25 per 100 lbs.

**Iowa Shield Egg Mash**—A mash feed for the producing birds. It should be fed in conjunction with Iowa Shield Hen Food. \$3.15 per 100 lbs.

**Iowa Shield Chick Grain**—A pure grain feed for small chicks. \$2.90 per 100 lbs.

**Iowa Shield Developer**—A grain feed for birds too young to eat hen food. \$2.90 per 100 lbs.

**Iowa Shield Hen Food**—Made of clean, sound grains in proper proportion. High in food value. \$2.75 per 100 lbs.

**Alfalfa Meal**—Ground fine for mashes. \$2.75 per 100 lbs.

**Ground Meat Scraps**—Much better than tankage for laying hens. Does not flavor the eggs. \$4.50 per 100 lbs.

**Crushed Raw Bone**—Relished by poultry. Made from clean, fresh bones. \$4.50 per 100 lbs.

**Raw Bone Meal**—Like above but ground fine for mashes and baby chicks. \$4.50 per 100 lbs.

**Oyster Shell**—Best for laying hens. It supplies the lime so much needed at laying time. \$1.50 per 100 lbs.

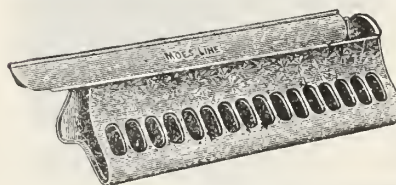
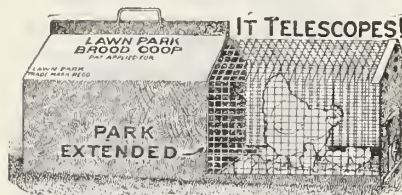
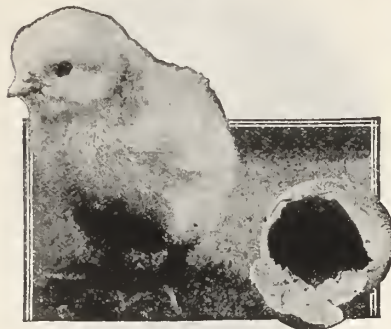
**Charcoal**—Granulated for poultry, also for baby chicks. If size is not given we ship for adult poultry. 10 lb. bag 75c; 50 lb. bag \$3.00.

There is a minimum freight charge of fifty cents so order two bags or more of feed at a time to reduce freight.

**Cod Liver Oil.** Best quality. Quart, 60c; gallon, \$1.75.

**Cod liver oil** in a convenient form for mixing. 5 lbs., \$2.00.

**Yeast.** Dry powdered yeast foam. 4 lb. box, \$1.00.



**Peat Litter or Peat Moss.** This material is a comparatively new item that is working out ideally as a litter for baby chick pens. It is light and dry and will absorb 10 to 15 times its weight of moisture. A 150 lb. bale will cover approximately 360 sq. ft., 1 in. deep. By express or freight. \$5.00 per bale. Less than bale lots, 5c per lb.

**Sol Hot Twin Float Brooder.** This is the best kerosene burning brooder on the market. We have sold them for 4 years without a complaint. We can supply them in the following sizes:

No. 1. Small, 24 in. canopy, Cap. 100 chicks .....\$11.50

No. 2 Standard, 34 in. Canopy, Cap. 250 to 300 chicks.....\$17.00

No. 3 Standard, 44 in. Canopy, Cap. 500 chicks .....\$20.50

No. 4 Standard, 54 in. Canopy, Cap. 1,000 chicks .....\$22.50

No. 5 Giant, 54 in. Canopy, Cap. 1,000 chicks .....\$24.50

No. 6 Giant, 64 in. Canopy, Cap. 1,100 chicks .....\$26.50

Prices quoted are for shipment by express or freight.

**Lawn Park Brood Coop.** This coop as illustrated, complete with extension for daytime use at \$3.95 each; \$40.00 per doz., not prepaid.

**Metal Coop No. 1.** Similar in size and shape to the Lawn Park Coop but does not have the extension. Price, \$1.95 each; \$18.00 per doz.

**Chick Feeder No. 1.** Small size slide top feeders. 10 holes on each side. Price, 30c each; mailing wt., 2 lbs.

**Chick Feeder No. 140.** Large capacity chick feeder. Holds 10 qts. Length, 21 in. 16 openings on each side. \$1.25 each. Shipping wt., 5 lbs.

**Chick Feeder No. 141.** Capacity, 17 qts. Length, 35 in. 27 openings on each side. \$1.95 each. Shipping wt., 8 lbs.

**Reel Type Chick Feeder.** Built of heavy galvanized iron. 2 in. deep, 4 in. wide, 4 ft. long. Provides 8 ft. of feeding or water space. Complete with perch as illustrated, \$1.50.



## Reel Type Poultry Feeder

Similar to the chick feeder illustrated on page 41. Length, 5 ft., width, 12 in., depth, 5 in. Stands 14 in. from floor. Has compartment for oyster shell, grit or charcoal. Impossible for birds to waste or contaminate feed. Price, \$4.50 each.

## Chick Fountains

No. 1. 1 gallon metal fountain with snap on base. 60c each.

No. 15. Double wall top fill fountain. Capacity, 2 gallon. \$1.50 each.

No. 12. Similar to above. 5 gallon capacity. \$2.50 each.

No. 14. Similar to above. 8 gallon capacity. \$3.50 each.

Star Fountains. To fasten on fruit jar. 15c each.

Stoneware Fountains. One-half gallon capacity, 50c each. 1 gallon capacity, 60c each.

Non-Splash Stoneware Fountain. 1 gallon capacity, \$1.00 each.

## Lamp Heated Poultry Fountains

No. 50. 5 gallon capacity, \$4.50 each.

No. 60. 10 gallon capacity, \$6.50 each.

## Insulated Fountains

No. 70. 3 gallon capacity, \$3.50 each.

No. 80. 5 gallon capacity, \$4.50 each.

## Suntex

A new glass cloth. 36 in width, 40c yd. 5 yds. or more at 35c per yd. 15 yds., \$5.00.

## Cel-o-Glass

This is genuine Cel-o-glass. It is very suitable for poultry house windows. 36 in. width, \$1.25 yd. 10 yds. or more at \$1.15 per yd.

## Run Board Coop

Double deck. Height, 24 in. Width, 13 in. Length, 40 in. Fits on the run board of any auto. \$3.95 each.

## Trap Nests

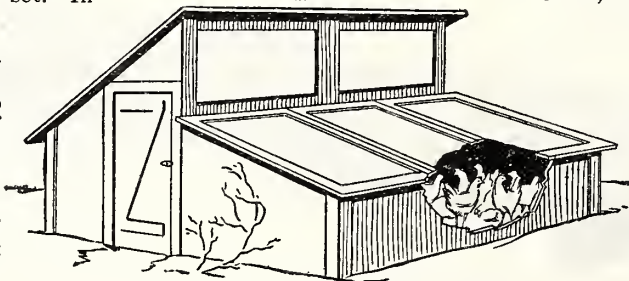
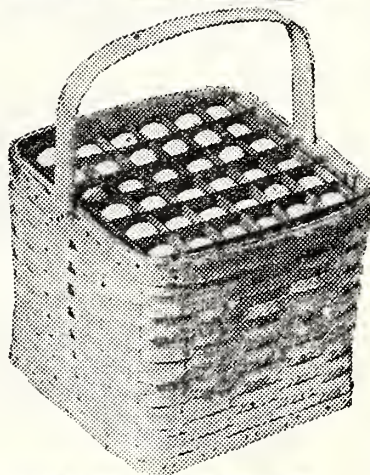
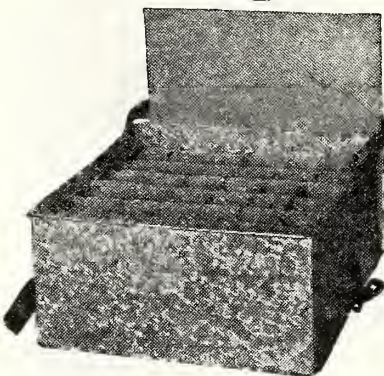
All metal trap nests complete with trap nest fronts ready to fasten to wall. In sets of 4, \$5.00 per set. In sets of 8, \$9.50 per set.

## Trap Nest Fronts Only

Trap nest front with door to be fastened across front of any wooden nest. 50c each; \$5.00 per doz.

## Grit and Shell Feeders

3 compartments, \$1.00 each;  
4 compartments, \$1.25 each.



## Parcel Post Egg Carriers

These are heavy galvanized iron boxes with removable lid as illustrated on this page.

No. 4. 4 dozen size, \$1.75.

No. 6. 6 dozen size, \$2.00.

## Combination Egg and Market Baskets

A convenient way to carry eggs to market. When empty, these baskets are ideal for market or picnic baskets. 9 dozen size, \$1.00 each; 12 dozen size, \$1.25 each.

## Egg Cartons

3x4 size, 15c dozen; \$1.05 per 100; \$4.50 per 500.

## Nest Eggs

Chalk. 3 for 10c; 30c per dozen.

Glass. 3 for 10c; 30c per dozen.

## Caponizing Sets

No. 1. \$3.00

No. 2. \$5.00

## Carbola

The best disinfecting white paint for poultry houses. Can be used as a dry disinfectant in the winter to control insects. 5 lbs. makes 2½ gallons of paint. 5 lbs., 75c; 10 lbs., \$1.25; 25 lbs., \$2.50.

## Poultry Netting

Galvanized netting in 1 in. and 2 in. mesh. Rolls, 150 lineal feet.

Width	1 in. Mesh	2 in. Mesh
12 in.	\$3.18	
18 in.	4.56	
24 in.	5.84	\$2.93
36 in.	7.43	3.98
48 in.		5.31
60 in.		6.72
72 in.		7.91

Less than roll lots, any width, 1 in. mesh, 2c sq. ft.; 2 in. mesh, 1c sq. ft.

## Leg Bands

Spiralet. Made of colored celluloid. Easily put on and do not bind nor cut the leg. Sizes for Asiatic, American and Mediterranean breeds. 15c per doz., 50 for 40c; 100 for 75c; postpaid. Sizes for bantam, pigeon and baby chick, doz., 15c; 50 for 35c; 100 for 65c; postpaid. Colors, red, green, blue, yellow, black and white.

Aluminum. These are adjustable, numbered bands, easy to put on or take off. 15c per doz.; 75c per 100, postpaid.

## Thermometers

For Incubator. High grade, tested thermometers. Will fit any incubator. \$1.00 each, postpaid.



## Thermometers—(Cont.)

**For Brooder.** A convenient thermometer for brooders because an opening can easily be made for the bulb through the canopy and the thermometer can be read from the top. \$1.00 each, postpaid.

## Brass Wafers

**Thermostat Wafers.** These are well made brass wafers; double compartment. Can be used for either incubators or brooders. Price, 3 in. diameter, 50c; 4 in. diameter, 80c; 5 in. diameter, \$1.00, postpaid.

## Black Leaf 40

**Black Leaf 40.** A well known insecticide that has been found to be very useful for the control of poultry insects. The undiluted Black Leaf 40 is painted on the top of the roosts. Fumes from one application will last long enough to not only thoroughly delouse the birds but also destroy the young insects that hatch from the eggs. 1 oz. bottle (will treat 15 ft. of roost) 35c; 8 oz. (will treat 100 ft.) \$1.25; 2 lb. can (will treat 400 ft.) \$3.25. Black Leaf 40 cannot be sent by parcel post.

## Nicotine Powder

**Tobacco Dust.** Finely powdered. Suitable for mixing with mash to control round worms in poultry. 15c per lb.; 5 lbs. for 50c; 100 lbs. for \$6.00. By express.

## Rogers' Toe Punch

**Poultry Punch.** Guaranteed to do the work. Medium size hole. 40c each; postpaid.

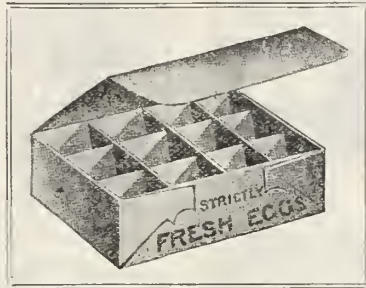
# Poultry Tonics and Remedies

With the present day method of keeping poultry in large groups the opportunity for trouble from parasites and diseases increases rapidly. It pays well to guard your investment in poultry by not only using preventive measures but by being ready for emergencies that may occur. The items which we offer you have all been tested by years of use and are guaranteed by the manufacturer to do the work for which they are intended or your money will be refunded.

## Dr. LeGear Preparations

**Poultry Prescription.** This is a tonic and conditioner for poultry. It should be mixed in the dry mash feed at the rate of 2 lbs. to 100 lbs. of mash. 1½ lbs., 25c; 3 lbs., 50c; 8 lbs., \$1.00; 25 lb. pail, \$3.00.

**Worm Powder.** This powder is used



## You can have them by mizing Dr. LeGear's Poultry Prescription

—MINERAL-IZED—

with the feed. Guaranteed to give satisfaction. Use a full pail or package. If not satisfied, your money will be refunded. Get it today.



for the control of worms in poultry. It is mixed with the mash at the rate of 2 lbs. to each 100 lbs. of mash and fed over a period of 3 weeks. 4 lb. pkg., \$1.00.

**Worm Pills.** These are nicotine pills to be used for the control of round worms in poultry. The pills are coated with a hard substance that does not dissolve in the crop of the bird but carries through into the gizzard where it is crushed. This releases a full strength worm solution directly into the intestines. This method does not sicken or throw the birds off production. 50 pills, 50c; 120 pills, \$1.00.

## Dr. Hess Preparations

**Pan-a-Min.** Has been known to poultry raisers for more than 30 years as Dr. Hess Poultry Panacea. It is now a greatly improved product. More minerals have been added. It contains new medicinal ingredients, and other active ingredients in different proportions. The improved product has been given a new name. Dr. Hess Poultry Pan-a-Min means Panacea plus. Pan-a-Min is of high value to moulting hens, in egg production, in reducing chick mortality, in bone and feather growth and in maintaining health. It does not take the place of feed and no feed can take the place of Pan-a-Min. The cost is less than a penny per hen per month. 3 lbs., 50c; 7 lbs., \$1.00; 15 lbs., \$2.00; 25 lbs., \$3.00; 100 lbs., \$10.00.

**Ver-mi-trol.** A flock treatment for worms in poultry. No individual handling of birds is necessary. It is simply given with the feed in two 10 day courses, three weeks apart, with Dr. Hess Poultry Panamin fed regularly. It is not drastic, does not throw hens or pullets off production and does not interfere with the development of young birds. It is palatable, all birds eat it readily. As a preventive measure, to avoid worm infestation, a twice-a-year flock treatment, early summer and late fall, is strongly recommended. 4 lbs. (for 50 fowls) \$1.25; 10 lbs. (for 125 fowls) \$2.75; 25 lbs. (for 300 fowls) \$6.25. By express or freight.

**Poultry Tablets.** Formerly Roup Tablets. While there is no absolute cure for roup, Dr. Hess Poultry Tablets are of high value in treating locally the swellings incident to the disease. The Tablets are used as a local antiseptic and to medicate the drinking water. Thus used, they aid in preventing spread of the disease. Once the Tablets are in solution, they remain so permanently. The water is evenly medicated and requires no further stirring. 100 tablets, 50c; 225 tablets, \$1.00.

**Chick Tablets.** Most diarrhea conditions in chicks, often mistaken for Bacillary White Diarrhea, are the result of improper feeding or brooding, and can be corrected by Dr. Hess Chick Tablets. These Tablets are a bowel



## Dr. Hess Preparations (Ctd.)

astringent to be given in drinking water. Once the Tablets are in solution they remain so indefinitely. No need for further stirring. Solution is thoroughly medicated and all good until used. 100 tablets, 50c; 200 tablets, \$1.00.

**Instant Louse Killer.** Kills lice on stock and poultry. Easily applied by putting in dust bath. Hens work it down into the feathers where the lice are. It kills lice on contact. It is also applied directly to the fowl if badly infested. Kills lice and bugs on cucumber, squash and melon vines—slugs on rose bushes. It is non-poisonous, so may be used on edible plants with entire safety. Comes in handy sifting-top cans. 1 lb., 25c; 2½ lbs., 50c.

**Dip and Disinfectant.** A dip that makes a perfect milk-white emulsion—never any streaks or settlings. Remains in emulsion indefinitely. It is a standardized product with an established carbolic acid co-efficient; always uniform in strength, no matter where purchased. Because of its strength, its uniformity, its perfect emulsifying qualities, with its germ and insect killing powers, it is a most inexpensive dip to use. Valuable about barns and stables; kills hog lice and other parasites and keeps down foul odors. 12 oz., 40c; 1 qt., 65c; ½ gal., \$1.00; 1 gal., \$1.75.

## Lee Preparations

**Gizzard Capsules.** For the control of worms in poultry. 50 adult size, \$1.00; 100 adult size, \$1.75; 50 chick size, 65c; 100 chick size, \$1.00.

**Germozone.** A liquid to be used in drinking water as a preventive for colds and roup. 12 oz. bottle, 75c; 32 oz. bottle, \$1.50; 1 gal., \$4.50.

**Germozone Tablets.** The above product in tablet form. Easily dissolved in water. 20 tablets, 25c; 75 tablets, 75c.

**Louse Powder.** In sifter-top can. 1 lb., 25c; 2½ lbs., 50c.

**Egg Maker.** A tonic and conditioner to be mixed with a dry mash at the rate of 7 lbs. to 100 lbs. of mash. 5 lbs., 90c; 25 lb. pail, \$3.75.

**Vapo-Spray.** A new treatment for the control of influenza and roup. 1 qt., 75c; ½ gal., \$1.25; 1 gal., \$2.00.

**Flu-Koff Emulsion.** To be mixed with the mash as a companion product of the Vapo-Spray. 12 oz. bottle, \$1.00; 32 oz. bottle, \$2.00.

**Lice Killer.** 1 qt. can, 60c; ½ gal., 90c; 1 gal., \$1.50.

**Revenge Louse Powder.** One of the best methods of controlling poultry parasites. 1½ lb. can (enough for 100 birds), 65c; 3 lb. can (enough for 200 birds), \$1.00.

**B-K.** A wonderful disinfectant. Can



be used in drinking water for the control of baby chick diseases. Also an ideal disinfectant to use around the dairy. 4 oz., 35c; 10 oz., 60c; 1 qt., \$1.25; 1 gal., \$3.00.

## Rat and Mice Poisons

**Rat Scent.** This rat and mice poison has proven very effective in control of these pests about the barn and poultry house. The poisoned grain will not harm poultry, and other pets such as dogs or cats are not attracted by it. Ready to use, no mixing necessary. Price, 35c per box.

**K-R-O.** Kills rats only. A red squill preparation. Poisonous only to rats. Will not harm other animals. To be mixed with meat to make a large number of baits. Price 75c per can.

## Dog Foods

**Champion Dog Biscuit.** These Dog Biscuits or Dog Cakes are a combination of cereal and meat balanced in the proper proportion and baked into a hard biscuit. These can be given dry or can be soaked in hot water or milk for feeding soft. These form a complete, well balanced ration or they can be used to supplement other foods. Price 15c per lb.; 10 lbs., \$1.40; 25 lbs., \$3.25; 100 lbs., \$12, f.o.b. Des Moines.

**Champion Kibbled Biscuit.** This is the Champion Biscuit broken up into smaller pieces. They are more convenient where the feed is softened before feeding. Prices same as for Dog Biscuits.

**Champion Puppy Meal.** A specially prepared food for younger dogs. It is ground finer than the Kibbled, so that it can readily be softened if necessary. Prices same as for Dog Biscuits.

**Ken-L Ration.** A canned meat for dogs, making a safe way to feed meat to your dog. No. 1 size cans, 15c each; 7 for \$1.00; \$6.50 per case of 48 cans.

## Dog Remedies

We carry a complete line of Glover's dog medicines and we will be glad to send you, upon request, a large free instruction book on the proper care of your dog.

**Roundworm Vermifuge.** 65c

**Roundworm Capsules.** 65c.

**Tapeworm Capsules.** 65c.

**Tetrachlorethylene Capsules.** 65c.

**Condition Pills.** 65c.

**Digestive Pills.** 65c.

**Laxative Pills.** 65c.

**Compound Sulphur Tablets.** 65c.

**Nerve Sedative.** 65c.

**Expectorant Mixture.** 65c.

**Mange Medicine.** 65c.

**Kennel and Flea Soap.** 25c.

**Cresol Disinfectant.** 65c.

**Flea and Insect Powder.** 50c.

**Canker Wash.** 65c.

**Eye Lotion and Eye Wash Powder.** 65c.

**Antiseptic Mouth Wash.** 65c.



# Use Agrico Fertilizers for Better Yields

The original fertility of the soils in the middle west made the use of commercial fertilizers unnecessary for years. However the time has come when the judicious use of fertilizer will produce profitable returns on any of our soils.

Double A quality fertilizers are recognized as very high grade and the money you invest in these fertilizers will yield a very satisfactory return. Ask for free booklet on the use of fertilizer.

## 1930 Fertilizer Prices

	Analysis	Ton	500 lbs.	125 lbs.
16% Superphosphate.....	0-16-0	\$27.80	\$ 7.95	\$2.00
20% Superphosphate.....	0-20-0	32.65	9.15	2.50
Agrico for Truck.....	5-10-5	50.05	13.50	3.50
Agrico for Potatoes.....	4- 8-6	45.05	12.25	3.25
Agrico for Corn.....	3-14-6	46.95	12.75	3.40
Agrico for Grain.....	2-12-4	38.40	10.10	2.75

All prices f. o. b. Des Moines.



## Stock Feeds and Tonics



**Blatchford's**  
ESTABLISHED IN 1800  
**Calf Meal**

Less than 5c worth  
saves a gal. of milk

**Blatchford's Calf Meal.** This is a cooked milk substitute which supplies all the feed elements calves need for quick growth and health and it saves you money on every calf. It is not an experiment but has been used and recommended by farmers and stockmen for more than 40 years. 25 lbs., \$1.45; 50 lbs., \$2.75; 100 lbs., \$5.40. By express or freight.

**Dr. Hess Stock Tonic.**—A summary of many comparative tests shows that cows receiving Dr. Hess Stock Tonic produce on an average 45% to 50% more profits than cows not getting the Tonic. This conditioner and mineral supplement whets the appetite and sustains the milk flow well through the lactation period. 5 lbs., 75c; 15 lbs., \$2.00; 25 lbs., \$3.00; 100 lb. drum, \$10.00.

**Dr. Hess Hog Special.** A conditioner and mineral supplement for hogs only. It is given in the feed and when fed constantly prevents worm infestation. 15 lbs., \$2.00; 25 lbs., \$3.00; 100 lb. drum, \$10.00.

**Standard Worm Capsules.** An individual dosing method of treating hogs for worms. Guaranteed. 25 capsules, \$2.00.

**Standard Necro Tabs.** 250 tablets, \$3.00; 500 tablets, \$5.00.

**Protexol.** A dry insecticide for use on all live stock. Excellent for winter control of parasites. 3 lbs., 60c; 10 lbs., \$1.90.

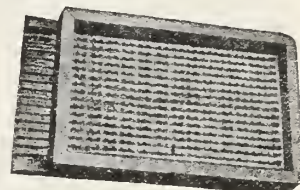
**Dr. Hess Antiseptic Powder.** A ready help in emergencies, deserving a place on every stable shelf. For treatment of wire cuts, scratches, galls and wounds. Quickly forms coating over wound and starts healing. 4 oz. sifter top can, 25c.

**Udder Health.** A penetrating ointment for garget, caked udder, hard or sore teats, 8 oz. tube, 60c.



## Farm Supplies

**Perfection Corn Grader.** Every farmer knows that his seed corn should be graded. No planter will drop right, with ungraded seed. The double sieve Perfection grader will remove the thin wafer-like kernels as well as the



round and narrow ones. Size 11x19 inches. Capacity, 6 to 10 bu. per hour. Price, \$1.50, by express.

**Cyclone Seed Sower.** This well known hand seeder is ideal for seeding grass or clover seed. Price, \$2.00 each, by express.

**Cyclone Horn Seeder.** Seed is distributed through long metal tube by swinging motion comparable to seeding by hand. Price, \$1.25 each, by express.

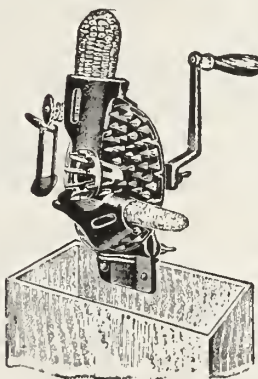
**Star Corn Sheller.** A fine sheller for hand use. Has attachment for shelling tips and butts separately, making it desirable in saving seed corn. We also sell an extra attachment for shelling pop corn. Can be fastened on a box and has reversible chute which throws cobs out at the rear away from the shelled corn. Strong, well made, and will last a lifetime. At our very low price, we consider it the best hand sheller on the market. Each, by express, \$2.00. Wt., 12 lbs.

## Wire Baskets

These are well made one-half bushel baskets with bail. Wires are electrically welded. They make ideal baskets for dipping seed potatoes into solutions and for various other uses where a tight basket is not needed. Price \$1.75 each; 6 for \$7.50. By express or freight.

## Clipper Fanning Mill

The best cleaning mill on the market for cleaning seed, grain, etc. Every farmer should have one of these machines. No. 1-B, hand only, \$39.00 complete with screens. No. 2-B, hand or power, \$45.00 complete with screens. Prices f.o.b. Des Moines.



STAR CORN SHELLER



# BIRD DEP'T. IOWA SEED CO.

Our bird department is an interesting and attractive place and in selecting the items which we offer we have endeavored to choose those which we knew would be very satisfactory.

The presence of living pets, such as a canary or goldfish, in the home always adds to the enjoyment derived from the home. Young and old enjoy the cheerful song of a good canary and everyone is attracted by the beauty of a bowl of goldfish. Our usual standard of only one quality—the best—is maintained in this department.

We guarantee safe arrival of all birds and fish we ship. Prices quoted include packing for shipment. The transportation charges are to be paid by the purchaser except on items marked postpaid.

## Canaries

**Little Dewdrops of Celestial Melody.** A canary makes an ideal pet for the home. The canaries we offer have been carefully trained and tested. Our guarantee that they will sing for you protects you fully.

**Imported St. Andreasburg Rollers.** These are the most popular of all Roller canaries. Their low, soft, sweet, rolling song is a wonderful revelation of melody. Guaranteed to sing. Choice songsters, \$11.50 each. Extra select, \$14.50 each.

**Martz Mountain Canaries.** This name is applied to the canary whose song is more varied than the Roller's song. Often there will be many notes of the Roller song, to which have been added the natural notes. You will never



HARTZ MOUNTAIN CANARY

grow tired of your Hartz Mountain canary's cheerful song. Guaranteed to sing. Good singers, \$5.75 each; choice singers, \$7.75 each; extra select, \$9.75.

## Love Birds

### Or Australian Paroquets

These brightly colored birds make very satisfactory cage pets. They get along nicely in a regular canary cage. Price, \$9.50 a pair.

## Bird Supplies

**Superior Mixed Bird Seed.** Best quality, freshly mixed. A carefully balanced seed ration for your canaries. 20c per lb.; 6 lbs. for \$1.00, not postpaid.

**Bird Health.** A tonic or condiment food for your canary. Should be fed separately from the seed at the rate of one-half teaspoonful each day. 15c per box; 8 boxes for \$1.00, postpaid.

**Bird Gravel.** A carefully screened granite grit which your birds need regularly. 15c per box; 8 boxes for \$1.00, not postpaid. Mailing weight, 2 pounds per box.

**Cuttle Bone.** Large size, 10c each; small, 5c each, postpaid.

**Sunflower Seed.** Best quality light striped seed. 20c per lb.; 6 lbs. for \$1.00, not postpaid.

**Bird Manna.** Use it in addition to the regular seed diet. Fastens to the wires of the cage. Each, 15c, postpaid.

**Bird Tonic.** This liquid tonic is excellent for canaries when out of condition. Cures colds and other similar ailments. One ounce bottle for 25c, postpaid.

**Paroquet Seed.** This seed is a special mixture for the Love Birds or Paroquets. Price, 20c per lb., or 6 lbs. for \$1.00, not postpaid.

**Russian Hemp.** Hemp is oily and should be fed in limited amounts, separate from the regular seed. Price, 15c per lb.; 8 lbs. for \$1.00, not postpaid.

## Goldfish and Supplies

A bowl of assorted goldfish makes an ideal ornament and one that attracts a great deal of attention.

Goldfish are sent by express. Twenty-five cents should be included with your order to cover cost of shipping pail.

**Goldfish.** These are universal favorites. Price, 20c, 25c, 35c, and 50c, each. The 35c size; 3 for \$1.00, are the most popular.

**Large Goldfish for Outdoor Pools.** During the spring and summer months we have a supply of large size Goldfish for outdoor pools. These large fish are very attractive and add the finishing touch of color to the Lily Pool. 6 to 8 in. length, 75c each; 8 to 10 in. length, \$1.00 each. In shipping these large fish by express a large size galvanized pail is required. No charge will be made for this pail if it is returned to us promptly by prepaid express. The cost of returning the pail by express is 20c.

**Comet Fish.** These "Long-Tailed Beauties" add to the attractiveness of any group. Price, small, 35c; medium, 50c; large, 75c each.

**Fantail Fish.** The double tails of these fish give them the name of Fantail. They are very pretty. Price, according to size, shape and color, 30c, 50c, 75c, and \$1.00, each.

**Fish Globes.** Best quality moulded glass bowls. One gal. size, 85c; 2 gal. size, \$1.25; 3 gal. size, \$2.00, by express.

**Cabomba or Aquarium Moss.** Goldfish require green plants in the Aquarium the year around. Cabomba is the best for this purpose. It sells in 10 stem bunches at 25c, postpaid.

**Wafer Fish Food.** The standard rice wafer food. 10c per box, postpaid.

**Ant Eggs.** For fish and turtles. 25c per box, postpaid.

**Natural Fish Food.** A granulated, balanced ration for Goldfish. It should be alternated with the Wafer Fish Food. 15c per box, postpaid.



CABOMBA OR AQUARIUM MOSS



# Bird Cages and Stands

In selecting the cages and stands to offer to our customers we have endeavored to choose ones that would be attractive and a real ornament in the home. At the same time quality and durability have not been sacrificed.

## "Canary's Choice"

### Round Brass Cage

Wires are of solid brass and thoroughly lacquered to prevent tarnishing. Complete with cups, perches and swing at the following special prices:

	Diameter	Height	Price
No. 1274.....	10 in.	13 1/4 in.	\$3.30
No. 1275.....	11 in.	13 3/4 in.	4.30
No. 1276.....	12 in.	14 1/4 in.	4.80

### Brass Cage Stand

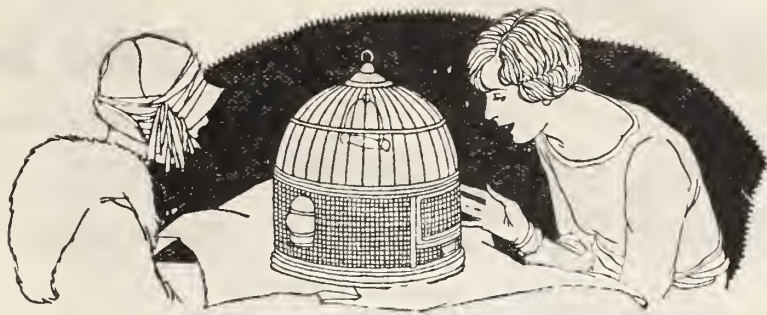
A well-made brass cage stand well lacquered to prevent tarnishing. Matches the "Canary's Choice" cage. Each, \$3.95.

### Beauty Cage and Stand

This colored cage and stand are very beautiful. The full loop stand forms an attractive frame for the cage. The finish is colored lacquer which will not come off. We can supply this cage and stand in three color combinations: Red and black, green and gold or blue and gold. Cage and stand complete, ready for shipment by express, sell at \$6.50. The cages separately at \$3.75; the stands separately at \$2.95. Specify the color combination you prefer.



BEAUTY CAGE AND STAND



## Special Gift Offer

*A gift that lives is the kind to give*

There have undoubtedly been times when you have wanted to select an especially attractive gift and one that would be different. This special gift offer is just such a gift. It includes one of the Beauty Cages and Stands, one of the extra select \$9.75 Hartz Mountain singers, 1 lb. of bird seed, 2 boxes of bird health, 1 pkg. of gravel and 1 cuttle bone. In other words, all the food the bird will need for a month.

## Special Gift Offer

Safe Arrival Guaranteed

**Only \$14.75**

(Transportation charges fully prepaid to any point in the United States for \$1.50 additional.)

# Hardy Water Lilies

Interest in Water Gardens is growing rapidly because a pool in a small garden is a very attractive feature. It forms a home for goldfish and other aquatic animal life as well as water lilies. We offer a select list of hardy water lilies. They will be ready for shipment April 15 to June 1. Prices quoted include postage.

### Gladstoniana

Flowers pure, dazzling white, cup shape, and very massive. Each, \$1.50.

### Marliacea Albida

Large sparkling white. Stamens light yellow. Fragrant and free bloomer. One of the best. Each, \$1.50.

### Marliacea Chromatella

Stamens and petals bright yellow, 4 to 6 in. across. Free and continuous bloomer. Each, \$2.00.

### Gloriosa

Superb large flower of deep carmine rose, becoming dark red later in season. Each, \$5.00.

### James Brydon

Rich rosy crimson. Reverse of petals have silver sheen. Each, \$4.00.



### Tuberosa Richardsoni

Flowers pure white and quite double. An immense snowball like flower. 8 in. in diameter. Each, \$1.00.

### Tuberosa Rosea

Flowers exquisite shade of pink. Vigorous grower of easy culture. Each, \$1.00.

### Odorata Minor

The miniature white water lily. Very dainty and suitable for tubs and small pools. Each, 50c.

### Odorata

A native white pond lily. Very desirable for planting in pools for effect and for cut flowers. Each, 50c.

### Tuberosa Sulphurea

A strong rampant grower with large sweet scented sulphur yellow flowers. For planting in natural ponds. Each, \$1.50.

### Paul Hariot

A large rich yellow shading to copper-red. Foliage spotted with brownish red. Each, \$4.00.

### Water Hyacinths

Flowers delicate lilac rose in trusses like a Hyacinth. 25c each; \$2.00 per doz.





1865 Sixty-fifth Year 1930

# The Iowa Seed Co.

"Seedsman to the American People"

EAST FOURTH AND LOCUST STREETS

Phone 4-3155

Des Moines, Iowa

## SUGGESTIONS ABOUT ORDERS

**HOW TO SEND MONEY**—The most convenient way to you, of course. Money Orders and Drafts are safe. Your check for larger amounts is acceptable. You may send stamps for change or small orders. There is seldom any loss of money in the mails.

**WHAT WE GUARANTEE**—That remittances sent in any of the protected ways shall reach us; that your order will be filled promptly and well; that the goods ordered shall reach you safely, and in good condition.

**WHAT WE DO NOT GUARANTEE**—The kind of crop our seeds will produce for you. As there are so many contingencies, such as time of planting, depth of planting, soil, weather and insects. No employee or officer of this company is authorized to make any warranty whatsoever. We, however, have so much confidence in our "Choice Iowa Seeds" that we hereby agree to refill any order for Garden or Flower Seeds, free of charge, should they prove otherwise than we represent them. We know of no responsible seed firm which will guarantee seeds further than this.

**OUR RESPONSIBILITY**—As this catalog will go into the hands of those that are not acquainted with us, we take pleasure in referring you to the Postmaster at Des Moines, Iowa, or to any Des Moines bank.

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**HOW TO FIGURE POSTAGE**—Multiply number of pounds your shipment amounts to by figure opposite your state and add four cents. Example—Should you live in Pennsylvania and order totals three pounds, you multiply 3x6 cents, equals 18 cents, plus 4 cents equals 22 cents, the amount of your postage. Any excess postage will be returned to you.

STATE	Postage Per Lb.	STATE	Postage Per Lb.
Alabama.....	6 cents	Nebraska.....	4 cents
Arizona.....	8 cents	Nevada.....	8 cents
Arkansas.....	4 cents	New Hampshire.....	8 cents
California.....	10 cents	New Jersey.....	8 cents
Colorado.....	6 cents	New Mexico.....	8 cents
Connecticut.....	8 cents	New York.....	8 cents
Delaware.....	6 cents	North Carolina.....	8 cents
Dist. Columbia.....	6 cents	North Dakota.....	6 cents
Florida.....	8 cents	Ohio.....	6 cents
Georgia.....	6 cents	Oklahoma.....	4 cents
Idaho.....	8 cents	Oregon.....	10 cents
Illinois.....	4 cents	Pennsylvania.....	6 cents
Indiana.....	4 cents	Rhode Island.....	8 cents
Kansas.....	4 cents	South Carolina.....	6 cents
Kentucky.....	6 cents	South Dakota.....	4 cents
Louisiana.....	6 cents	Tennessee.....	6 cents
Maine.....	8 cents	Texas.....	8 cents
Maryland.....	6 cents	Utah.....	8 cents
Massachusetts.....	8 cents	Vermont.....	8 cents
Michigan.....	4 cents	Virginia.....	6 cents
Minnesota.....	4 cents	Washington.....	10 cents
Mississippi.....	6 cents	Wisconsin.....	4 cents
Missouri.....	4 cents	West Virginia.....	6 cents
Montana.....	8 cents	Wyoming.....	6 cents

The parcel post rate from Des Moines to all Iowa points is 7 cents for the first pound and 1 cent for each additional pound.

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# Plants for Rock Gardens

The attractive flowers and plants of the mountains can be brought to our homes if we give them an environment that is homelike. A rock garden can be easily constructed especially when there are plenty of stones. Select a location preferably partially shady, where the ground is well drained. Begin by placing the stones so as to allow the moisture from rains to run into the garden and not away from it.

After placing a stone in position, work the soil in well around it in order to allow the moisture to work up among the stones and give the proper conditions for growing rock plants. Any air spaces that are left between the stones will prevent an even degree of moisture in the garden. Rock gardens can be made any height desired, but are usually not more than 10 or 15 inches above the surrounding ground. When building the upper course, be sure that planting spaces 8 to 10 inches in diameter are left so that a number of plants can be planted on the top.

Prices on all rock garden plants listed on this page are as follows: Each 35c, 3 of a kind 75c, doz. \$2.50 postpaid.

**Alyssum Saxatile**—Masses of bright yellow flowers in early spring.

**Arabis Alpina**—Double, white; fragrant flowers produced early in the spring.

**Aster Alpinus**—3 to 10 in. high. Bears large showy bluish purple flowers with yellow centers in May and June.

**Aster Mauve Cushion**—8 to 10 in. high. Delicate mauve with silvery cast. Very large flower.

**Aubrietia Deltoides**—One of the daintiest and most delicately beautiful of all dwarf, creeping plants. Forming brilliant sheets of blue, crimson or rose for many weeks.

**Calamintha Alpina**—Graceful rock plant with purple flowers. August.

**Campanula Carpatica**—A pretty species growing in compact tufts, not exceeding 8 in. high; flowers clear blue; held erect on wiry stems. It begins blooming in June, continuing until October.

**Cerastium Tomentosum**—A low, creeping plant with the upper surface of the leaves light in color and woolly; it bears a profusion of pretty white flowers.

**Dianthus Deltoides**—Maiden pink. Dark carmine—pink.

**Dianthus Plumarius**—Double grass pink. Hardy garden pink.

**Dianthus Speciosus**—Lilac-pink.

**Dicentra Eximia**—(Plumy Bleeding Heart) A dwarf growing sort, with beautiful finely cut foliage and showy racemes of pretty pink flowers throughout the season.

**Gypsophila Repens**—Creeping Gypsophila. Beautiful trailing plant with clouds of small pink and white flowers in July and August.

**Heuchera Sanguinea**—Grows about two feet high, with scalloped purple-tinged round leaves; and throughout the summer throws up innumerable erect, slender flower stems, each crowned with a loose umbel of coral-red flower.

**Iberis Sempervirens**—Very dwarf, covered with a sheet of white; height 6 to 8 inches.

**Iris Pumila**—Dwarf variety of Iris Germanica, color blue, growing about 8 in. high, very free blooming and sweetly scented.

**Limonium Latifolium**—Great Sea Lavender. Handsome plants with heads of dark blue flowers. Fine for cutting and also when dried, are used for winter bouquets.

**Linaria Cymbalaria**—Kenilworth Ivy. Long, trailing herb with pretty, small, lilac flowers with a yellowish throat in June.

**Myosotis Semperflorens**—Nearly everyone is familiar with the Forget-Me-Not which makes such beautiful pictures in the garden in early Spring. They are charming in the border, rock garden or by the waterside. They all like shade and a fair amount of moisture. They have large rich blue flowers with yellow eye: a charming plant for damp places.

**Phlox Subulata**—An early Spring-flower type with pretty moss-like, evergreen foliage, which during the flowering season, in April and May, is hidden under the masses of bloom.

ALBA. Pure white.

ROSEA. Rose pink. Fine for covering banks; thrives in hot, dry situations, and blooms profusely.



**Primula Versis**—

Cowslip  
Primrose;  
English Primrose; Large trusses of flowers, embracing a wide range of colors.

**Ranunculus Repens**—A pretty, double-flowering bright golden yellow buttercup; flowers in May and June.

**Saponaria Ocymoides**—Trailing vine, which is completely covered with rosy pink flowers from May to July.

**Sedum Acre**—(Wall Pepper, Mossy Stonecrop) A pretty species for rockwork, well known and considerably used.

**Silene Schafta**—4 in. July-October. Bright rose, one of the best autumn border plants.

**Stachys Lanata**—Woolly Betony; Woolly Woundwort. Fine, old-fashioned, cottage-garden plant for edging. Bright silvery white foliage, soft and woolly; light purple flowers in many flowered whorls.

**Thalictrum Adiantifolium**—Leaves resemble those of a maiden-hair fern. Flowers yellow.

**Trollius Europaeus**—Stems six to twenty inches high, bearing a pale yellow flowers an inch or more wide. A very interesting plant with handsome flowers. June-August.

**Tunica Saxifraga**—Has small pink flowers in the greatest profusion. Nice for the low border or for rockwork. Blooms profusely.

**Veronica "Royal Blue"**—Gentian blue. One of the prettiest and brightest of blue flowers, pleasing foliage. Flowers during May and June.

**Viola**—G. WERMIG. A variety of tufted pansy, forming clumps which are covered with rich, violet blue flowers the entire season.

**JERSEY GEM.** Color is pure, rich violet, and slightly perfumed. It is one of the best introductions in the list of the hardy plants in recent years.

**Vinca Minor**—A trailing, evergreen plant, used extensively for carpeting the ground under shrubs or trees or on graves where it is too shady for grass or other plants to thrive.

## Rock Garden Collection

This collection includes one each of 20 different varieties of plants described on this page. Our choice of varieties all labeled.

Total catalog value \$7.00 for ..... \$ 4.95 postpaid.  
3 collections for ..... \$12.50 postpaid.



1931 CATALOG

66th YEAR

# Choice Iowa Seeds



## Iowa Seed Company

*Seed Headquarters*

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